

4650

Access DB# 68162

# SEARCH REQUEST FORM

## Scientific and Technical Information Center

Requester's Full Name: Anuradha Nallie Examiner #: ELW 3 Date: 6/21/2012  
 Art Unit: 1752 Phone Number 305-646-1 Serial Number: 10/564558  
 Mail Box and Bldg/Room Location: C123- QP3C Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched.

Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for a compound represented by formula TS-1 or TS-11 (attached) in a Axx manner.

THANK YOU.

<b>STAFF USE ONLY</b>		Type of Search	Vendors and cost where applicable
Searcher:	<u>Z. Fuller</u>	NA Sequence (#)	STN <input checked="" type="checkbox"/>
Searcher Phone #:	_____	AA Sequence (#)	Dialog _____
Searcher Location:	_____	Structure (#)	<u>2</u> Questel/Orbit _____
Date Searcher Picked Up:	_____	Bibliographic	Dr. Link _____
Date Completed:	<u>6/20/12</u>	Litigation	Lexis/Nexis _____
Searcher Prep & Review Time:	<u>FC</u>	Fulltext	Sequence Systems _____
Clerical Prep Time:	_____	Patent Family	WWW/Internet _____
Online Time:	<u>50</u>	Other	Other (specify) _____

# EIC1700

## Search Results Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the EIC searcher* who conducted the search *or contact:*

Kathleen Fuller, Team Leader, 308-4290, CP3/4 3D62

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### *Voluntary Results Feedback Form*

➤ *I am an examiner in Workgroup:*  Example: **1713**

➤ *Relevant prior art found, search results used as follows:*

- 102 rejection
- 103 rejection
- Cited as being of interest.
- Helped examiner better understand the invention.
- Helped examiner better understand the state of the art in their technology.

*Types of relevant prior art found:*

- Foreign Patent(s)
- Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- Results verified the lack of relevant prior art (helped determine patentability).
- Search results were not useful in determining patentability or understanding the invention.

**Other Comments:**

WALKE 09/964588

Page 1

=> file reg  
FILE 'REGISTRY' ENTERED AT 14:40:12 ON 20 JUN 2002  
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DICTIONARY FILE UPDATES: 18 JUN 2002 HIGHEST RN 431976-32-8

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when  
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Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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FILE COVERS 1907 - 20 Jun 2002 VOL 136 ISS 25  
FILE LAST UPDATED: 18 Jun 2002 (20020618/ED)

This file contains CAS Registry Numbers for easy and accurate  
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CAS roles have been modified effective December 16, 2001. Please  
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information on CAS roles, enter HELP ROLES at an arrow prompt or use  
the CAS Roles thesaurus (/RL field) in this file.

=> d que  
L5 STR  
8 C C 9 2 N C 7  
| |  
1 C 3 C C 6  
| |  
5 C G1 4

TS-II Structure

24,214 compounds found

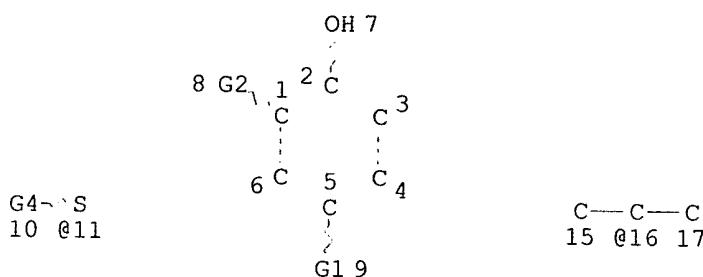
REP G1=(1-3) C

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

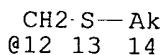
GRAPH ATTRIBUTES:  
 RSPEC I  
 NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE  
 L7 24214 SEA FILE=REGISTRY SSS FUL L5  
 L15 STR



*TS I structure*

*25,206 structures*



VAR G1=AK/11  
 VAR G2=16/12/T-BU  
 VAR G4=AK/CB  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RSPEC I  
 NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE  
 L17 25206 SEA FILE=REGISTRY SSS FUL L15  
 L18 15275 SEA FILE=HCAPLUS ABB=ON L7  
 L19 35053 SEA FILE=HCAPLUS ABB=ON L17  
 L20 3032 SEA FILE=HCAPLUS ABB=ON (L18 OR L19) AND MOLD?  
 L21 77 SEA FILE=HCAPLUS ABB=ON L20 AND PHOTOG?/SC,SX,AB,BI  
 L22 15 SEA FILE=HCAPLUS ABB=ON L21 AND PACK?  
 L23 2 SEA FILE=HCAPLUS ABB=ON L21 AND (SILVER OR AG)(W) (CHLORIDE OR  
 HALIDE OR FLUORIDE OR IODIDE OR BROMIDE)  
 L24 0 SEA FILE=HCAPLUS ABB=ON L21 AND (AGX OR AGCL OR AGI OR AGBR  
 OR AGF)  
 L25 1110 SEA FILE=HCAPLUS ABB=ON (L18 OR L19) (L)MOLD?  
 L26 24 SEA FILE=HCAPLUS ABB=ON L25 AND PHOTOG?/SC,SX,AB,BI  
 L27 0 SEA FILE=HCAPLUS ABB=ON L25 AND (AGX OR AGCL OR AGI OR AGBR  
 OR AGF)  
 L28 1 SEA FILE=HCAPLUS ABB=ON L25 AND (SILVER OR AG)(W) (CHLORIDE OR  
 HALIDE OR FLUORIDE OR IODIDE OR BROMIDE)  
 L29 2 SEA FILE=HCAPLUS ABB=ON L21 AND SILVER  
 L30 36 SEA FILE=HCAPLUS ABB=ON L22 OR L23 OR L24 OR L26 OR L27 OR

L28 OR L29  
L32 7160 SEA FILE=HCAPLUS ABB=ON (L18 OR L19) (L) MOA/RL  
L33 33 SEA FILE=HCAPLUS ABB=ON L21 AND L32  
L34 48 SEA FILE=HCAPLUS ABB=ON L30 OR L33  
L35 43 SEA FILE=HCAPLUS ABB=ON L34 AND (FILM# OR PLASTIC? OR  
POLYMER? OR RESIN#) /SC, SX, AB, BI  
L36 17 SEA FILE=HCAPLUS ABB=ON L35 AND (PHOTOG? OR LIGHT?(3A)?SENSITI  
V?)  
L38 22 SEA FILE=HCAPLUS ABB=ON L22 OR L23 OR L28 OR L29 OR L36  
L39 11 SEA FILE=HCAPLUS ABB=ON L33 AND (PHOTOG? OR LIGHT?(3A)?SENSITI  
V?)  
L40 22 SEA FILE=HCAPLUS ABB=ON L38 OR L39

*22 CA references with  
utility*

=> d 140 all 1-22 hitstr

L40 ANSWER 1 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
AN 2002:368018 HCAPLUS  
DN 136:361770  
TI Recycling of waste thermoplastic **polymer moldings** for  
**photographic** material and recycled products  
IN Sata, Toshio; Okamura, Daisuke; Kamata, Kazuo  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 35 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM G03C003-00  
ICS G03C003-00; C08K003-04; C08K005-00; C08L101-00; G03B015-00  
CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and  
Other Reprographic Processes)  
Section cross-reference(s): 38, 60

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002139819	A2	20020517	JP 2000-299238	20000929
	EP 1193039	A1	20020403	EP 2001-307937	20010918
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 2002038921	A1	20020404	US 2001-963472	20010927
PRAI	JP 2000-252631	A	20000823		
	JP 2000-299238	A	20000929		
AB	In recycling of the <b>polymer moldings</b> used for <b>photog.</b> products (e.g. housing of disposable cameras, <b>film</b> <b>cartridges</b> , etc.) as a part of materials such as pellets for newly-produced <b>moldings</b> , at least carbon black and antioxidants and optionally rubber-contg. <b>resins</b> are added during the process. Carbon black and antioxidants prevent deterioration of <b>photog.</b> properties, e.g. fog, abnormality in sensitivity, contrast, coloration, etc., and rubber-contg. <b>resin</b> prevents decrease in impact resistance. The recycled products also include spools and cartridges for <b>films</b> , magazines for <b>photog.</b> materials, etc.				
ST	recycling waste thermoplastic <b>photog molding</b> carbon black antioxidant; disposable camera <b>film</b> cartridge <b>plastic</b> recycling carbon black antioxidant; rubber contg <b>resin</b> <b>photog molding</b> waste thermoplastic recycling				
IT	Cameras (disposable; recycling of waste thermoplastic <b>moldings</b> for				

photog. material by adding carbon black, antioxidants, and optionally rubber-contg. resin)

IT Antioxidants  
Photographic films  
Recycling of plastics and rubbers  
(recycling of waste thermoplastic moldings for photog  
. material by adding carbon black, antioxidants, and optionally rubber-contg. resin)

IT Butadiene rubber, processes  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(recycling of waste thermoplastic moldings for photog  
. material by adding carbon black, antioxidants, and optionally rubber-contg. resin)

IT Carbon black, uses  
Rubber, uses  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(recycling of waste thermoplastic moldings for photog  
. material by adding carbon black, antioxidants, and optionally rubber-contg. resin)

IT 9003-17-2  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(butadiene rubber, recycling of waste thermoplastic moldings for photog. material by adding carbon black, antioxidants, and optionally rubber-contg. resin)

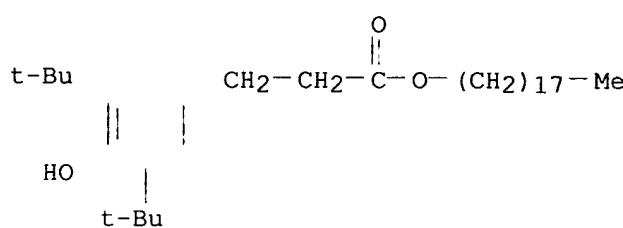
IT 2082-79-3, Irganox 1076  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(recycling of waste thermoplastic moldings for photog  
. material by adding carbon black, antioxidants, and optionally rubber-contg. resin)

IT 9003-53-6, Polystyrene  
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(recycling of waste thermoplastic moldings for photog  
. material by adding carbon black, antioxidants, and optionally rubber-contg. resin)

IT 2082-79-3, Irganox 1076  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(recycling of waste thermoplastic moldings for photog  
. material by adding carbon black, antioxidants, and optionally rubber-contg. resin)

RN 2082-79-3 HCPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl ester (9CI) (CA INDEX NAME)



L40 ANSWER 2 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
AN 2002:252981 HCAPLUS  
DN 136:280363  
TI Method of recycling **plastic** parts and recycled **moldings**  
for photosensitive material  
IN Okamura, Daisuke; Kamata, Kazuo; Sata, Toshio  
PA Fuji Photo Film Co., Ltd., Japan  
SO Eur. Pat. Appl., 40 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
IC ICM B29B017-00  
CC 38-2 (**Plastics Fabrication and Uses**)  
Section cross-reference(s): 37  
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1193039	A1	20020403	EP 2001-307937	20010918
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002139819	A2	20020517	JP 2000-299238	20000929
PRAI JP 2000-299238	A	20000929		
JP 2000-252631	A	20000823		

AB A front cover, a rear cover and a base portion are crushed, and further pelletized into a recycled **plastic** pellet. The recycled **plastic** pellet is used as a part of a **molding** material to produce **mold plastic** parts for a photosensitive material. When the **molding** material is melted, a thermoplastic **resin** is deteriorated by heat or modified. When the thermoplastic **resin** is deteriorated in the above manner, the photosensitive material reacts with the thermoplastic **resin** to form decompd. products having bad influence on **photog.** characteristics. In order to prevent the deterioration by heat, oxidn. inhibiting materials are added, and to absorb the decompd. products, C blacks are added to the thermoplastic **molding** material.  
ST recycling impact polystyrene **molding** camera body  
IT Impact-resistant materials  
    (butadiene rubber-polystyrene blend; recycled impact polystyrene for **molding** and use with photosensitive material)  
IT Antioxidants  
    (for recycled impact polystyrene for **molding** and use with photosensitive material)  
IT Carbon black, uses  
    (RL: MOA (Modifier or additive use); USES (Uses)  
    (for recycled impact polystyrene for **molding** and use with photosensitive material)  
IT Cameras  
    (molded parts; recycled impact polystyrene for

molding and use in)

IT Butadiene rubber, uses  
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); PROC (Process);  
 USES (Uses)  
 (polystyrene blend; recycled impact polystyrene for molding and use with photosensitive material)

IT Molded plastics, uses  
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (recycled; recycled impact polystyrene for molding and use with photosensitive material)

IT Recycling of plastics and rubbers  
 (recycling impact polystyrene parts for photosensitive material)

IT 9003-53-6, Polystyrene  
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); PROC (Process);  
 USES (Uses)  
 (butadiene rubber blend; recycled impact polystyrene for molding and use with photosensitive material)

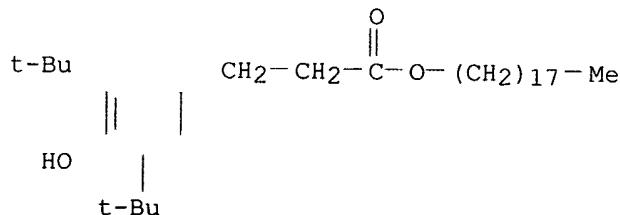
IT 9003-17-2  
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); PROC (Process);  
 USES (Uses)  
 (butadiene rubber, polystyrene blend; recycled impact polystyrene for molding and use with photosensitive material)

IT 2082-79-3, Irganox 1076  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (recycled impact polystyrene for molding and use with photosensitive material)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE  
 (1) Akao, M; US 4780357 A 1988  
 (2) Akao, M; US 5851743 A 1998 HCPLUS  
 (3) de Vrieze, C; US 3988285 A 1976 HCPLUS  
 (4) Fuji Photo Film Co Ltd; EP 1107054 A 2001 HCPLUS  
 (5) Nakadate, T; US 4699744 A 1987  
 (6) Sakuma, N; US 4810733 A 1989 HCPLUS  
 (7) Sekisui Plastics; EP 0719626 A 1996 HCPLUS  
 (8) Vandemoere, A; US 5600391 A 1997

IT 2082-79-3, Irganox 1076  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (recycled impact polystyrene for molding and use with photosensitive material)

RN 2082-79-3 HCPLUS  
 CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl ester (9CI) (CA INDEX NAME)



L40 ANSWER 3 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
 AN 2001:377039 HCAPLUS  
 DN 134:373994  
 TI Polyacetal products, showing decreased **mold** deposits, for use  
     with **photographic** materials  
 IN Akao, Mutsuo  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 38 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G03C003-00  
     ICS G03C003-00; C08K005-09; C08K005-13; C08K005-20; C08L023-00;  
       C08L025-00; C08L059-00; C08L067-00; C08L075-04; C08L077-00;  
       C08L083-04; C08L091-00; C08J005-00  
 CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and  
     Other Reprographic Processes)  
     Section cross-reference(s): 38, 60

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001142176	A2	20010525	JP 1999-322488	19991112
AB	The products are <b>molded</b> compns. contg. polyacetals, thermoplastic <b>resins</b> which detoxifies HCHO generated from polyacetals, lubricant, antioxidant, and light-shielding substances. The compns. have excellent formability and give products having high strength and excellent sliding properties and are suitable for use as <b>film</b> magazines and instant <b>film packages</b> . The products are recyclable.				
ST	polyacetal <b>film</b> magazine formaldehyde scavenger blend; <b>polymer</b> blend polyacetal formaldehyde scavenger; <b>mold</b> deposit prevention polyacetal <b>film</b> magazine; <b>photog</b> <b>film</b> magazine recycling polyacetal				
IT	Amides, preparation RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses) (fatty; light-shielding polyacetal compns. contg. HCHO-scavenging <b>polymers</b> for <b>photog. film</b> cases)				
IT	Scavengers (for formaldehyde; light-shielding polyacetal compns. contg. HCHO-scavenging <b>polymers</b> for <b>photog. film</b> cases)				
IT	Polyamides, preparation RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses) (formaldehyde scavenger; light-shielding polyacetal compns. contg. HCHO-scavenging <b>polymers</b> for <b>photog. film</b> cases)				
IT	Phenols, preparation RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses) (hindered, antioxidants; light-shielding polyacetal compns. contg. HCHO-scavenging <b>polymers</b> for <b>photog. film</b> cases)				
IT	Carbon black, preparation RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses) (light-shielding component; light-shielding polyacetal compns. contg. HCHO-scavenging <b>polymers</b> for <b>photog. film</b>				

cases)

IT Antioxidants

Recycling  
(light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)

IT Fatty acids, preparation

Polyesters, preparation

Polysiloxanes, preparation

Polyurethanes, preparation

Thermoplastic rubber

RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)

IT Waxes

RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(low mol. wt. polyolefins; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)

IT Photographic films

(magazines and containers for; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)

IT Fatty acids, preparation

RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(metal salts; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)

IT Polyolefins

RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(metallocene, formaldehyde scavenger; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)

IT Containers

(photog. film; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)

IT Urethane rubber, preparation

RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(polyester-, formaldehyde scavenger; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)

IT Acetals

RL: DEV (Device component use); USES (Uses)  
(polymers; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)

IT 6683-19-8P, Irganox 1010

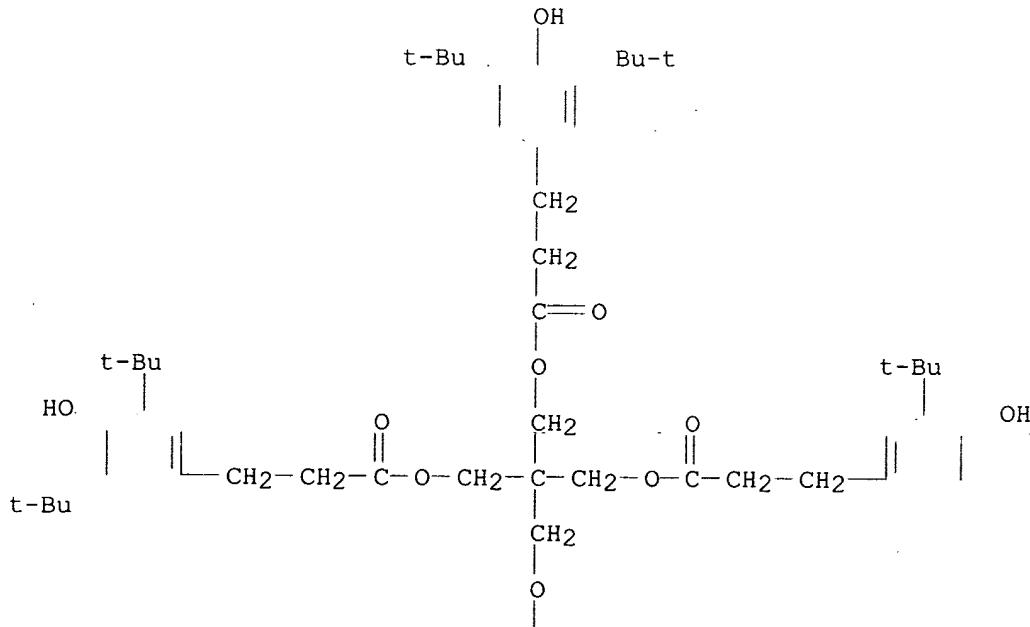
RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(antioxidant; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)

IT 25191-90-6P, Nylon 6-nylon 66-nylon 610 copolymer

RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(formaldehyde scavenger; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film)

cases)  
IT 9003-53-6P  
RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)  
IT 1592-23-0P, Calcium stearate  
RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(lubricant; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)  
IT 26221-73-8DP, Ethylene-octene-1 copolymer, graft with unsatd. carboxylic acids  
RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(metallocene, formaldehyde scavenger; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)  
IT 50-00-0, Formaldehyde, processes  
RL: REM (Removal or disposal); PROC (Process)  
(scavengers; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)  
IT 6683-19-8P, Irganox 1010  
RL: DEV (Device component use); MOA (Modifier or additive use);  
PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(antioxidant; light-shielding polyacetal compns. contg. HCHO-scavenging polymers for photog. film cases)  
RN 6683-19-8 HCAPLUS  
CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,  
2,2-bis[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

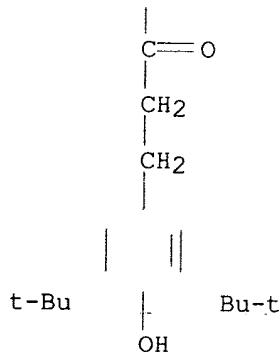
PAGE 1-A



PAGE 1-B

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PAGE 2-A



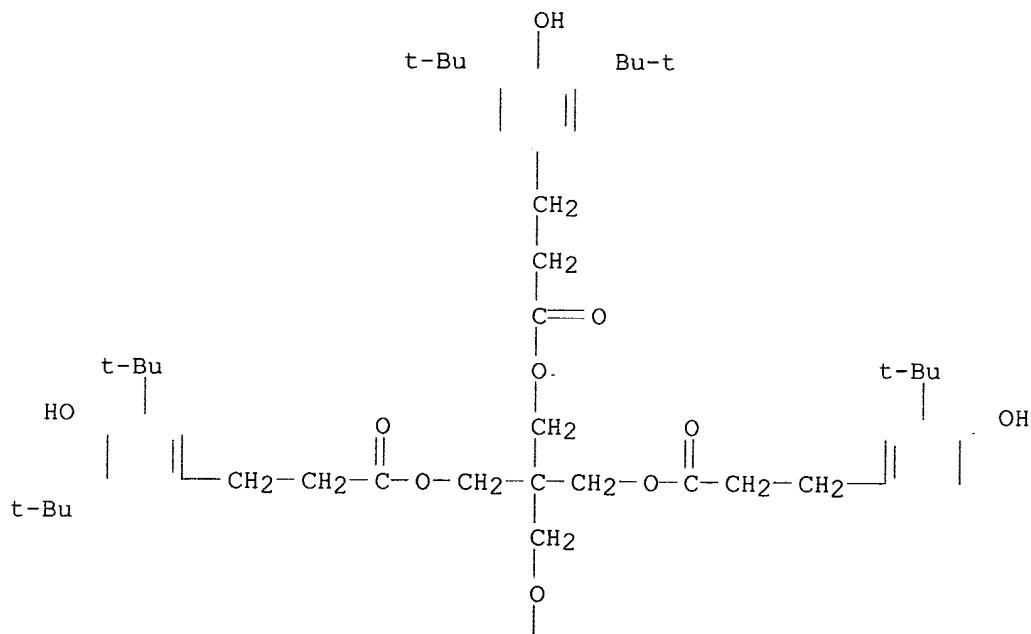
L40 ANSWER 4 OF 22 HCPLUS COPYRIGHT 2002 ACS  
AN 2001:62609 HCPLUS  
DN 134:123524  
TI **Packaging** material for photosensitive materials, its manufacture, and **packed** product using same  
IN Akao, Atsuo  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 28 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM G03C003-00  
      ICS G03C003-00; B29C047-14; B32B027-18; B32B027-20; B65D065-40;  
          B65D081-30; C08J005-18; C08K005-098; C08K009-12; C08L101-00;  
          B29K105-16; B29K509-00; B29L007-00; B29L009-00  
CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and Other Reprographic Processes)

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001022033	A2	20010126	JP 1999-192607	19990707
AB	<p>The title <b>packaging</b> material comprises a thermoplastic <b>resin film</b> layer contg. 1-40 wt.% of zeolite with water content .ltoreq.15% and 0.01-10 wt.% of a lubricant. The thermoplastic <b>resin</b> may contain .gtoreq.1 moisture-controlling agent, deoxidn. agent, formaldehyde scavenger, and HCN scavenger. A blend of master batch pellets contg. .gtoreq.1 of additives in a high conc. and dilg. matrix <b>polymer</b> pellets is melt-mixed at a <b>resin</b> temp. of 150-350.degree. by using an extruder with a screw having an effective length/outer diam. ratio of 10-50 and then <b>molded</b> at a draw ratio (lip clearance/film thickness) of 3-100 by using a <b>molding</b> machine having a lip clearance of 0.7-5 mm to form the <b>resin film</b> layer. A <b>packed</b> product is also claimed, in which a photosensitive material is <b>packed</b> in a moisture-proof bag with moisture permeability .ltoreq.10 g/m<sup>2</sup>.24 h formed by heat-sealing the <b>resin film</b> each other. The <b>packaging</b> material can be produced inexpensively using polyolefin <b>resins</b> as main constituents and shows improved burning properties and applicability to recycling system.</p>				
ST	<b>photog packaging</b> material polyolefin zeolite				
IT	Polyamides, uses RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)				
	(dimer acids, formaldehyde scavenger; <b>photog. film</b> <b>packaging</b> material comprising polyolefin contg. zeolite and lubricant)				
IT	Lubricants <b>Packaging</b> materials <b>Photographic</b> films ( <b>photog. film</b> <b>packaging</b> material comprising polyolefin contg. zeolite and lubricant)				
IT	Zeolites (synthetic), uses RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)				
	(silver- and manganese-contg.; <b>photog. film</b> <b>packaging</b> material comprising polyolefin contg. zeolite and lubricant)				
IT	6683-19-8, Tetrakis[methylene-3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate]methane RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)				
	(deoxidn. agent,; <b>photog. film</b> <b>packaging</b> material comprising polyolefin contg. zeolite and lubricant)				
IT	7647-10-1, Palladium chloride RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)				
	(hydrogen cyanide scavenger; <b>photog. film</b> <b>packaging</b> material comprising polyolefin contg. zeolite and lubricant)				
IT	1592-23-0, Calcium stearate — RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)				
	(lubricant; <b>photog. film</b> <b>packaging</b> material comprising polyolefin contg. zeolite and lubricant)				
IT	9002-88-4, Polyethylene 25213-02-9, Ethylene-1-hexene copolymer RL: DEV (Device component use); USES (Uses)				
	<b>(photog. film</b> <b>packaging</b> material				

comprising polyolefin contg. zeolite and lubricant)  
IT 128-37-0, 2,6-Di-tert-butyl-4-methylphenol, uses 13463-67-7,  
Titania, uses  
RL: DEV (Device component use); MOA (Modifier or additive use);  
USES (Uses)  
(photog. film packaging material  
comprising polyolefin contg. zeolite and lubricant)  
IT 7439-96-5, Manganese, uses 7440-02-0, Nickel, uses 7440-22-4,  
Silver, uses 7440-50-8, Copper, uses  
RL: DEV (Device component use); MOA (Modifier or additive use); USES  
(Uses)  
(zeolite contg.; photog. film packaging  
material comprising polyolefin contg. zeolite and lubricant)  
IT 6683-19-8, Tetrakis[methylene-3-(3',5'-di-tert-butyl-4'-  
hydroxyphenyl)propionate]methane  
RL: DEV (Device component use); MOA (Modifier or additive use);  
USES (Uses)  
(deoxidn. agent,; photog. film packaging  
material comprising polyolefin contg. zeolite and lubricant)  
RN 6683-19-8 HCPLUS  
CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,  
2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-  
oxopropoxy)methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

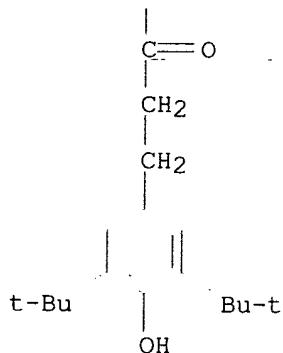
PAGE 1-A



PAGE 1-B

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PAGE 2-A

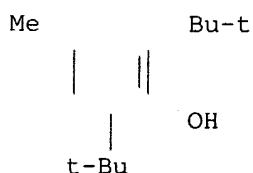


IT 128-37-0, 2,6-Di-tert-butyl-4-methylphenol, uses  
 RL: DEV (Device component use); MOA (Modifier or additive use);  
 USES (Uses)

(photog. film packaging material  
 comprising polyolefin contg. zeolite and lubricant)

RN 128-37-0 HCPLUS

CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (9CI) (CA INDEX NAME)



AN 2000:747101 HCPLUS  
DN 133:315539  
TI **Packaging** material for photosensitive materials  
IN Akao, Mutsuo; Sugimoto, Hideyuki  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 26 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM G03C003-00  
ICS G03C003-00; C08K003-04; C08L009-00; C08L101-00  
CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and  
Other Reprographic Processes)  
Section cross-reference(s): 39  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000298331	A2	20001024	JP 1999-104672	19990413
AB	The title <b>packaging</b> material comprises a thermoplastic resin 100, a 1,2-polybutadiene-type thermoplastic elastomer 0.05-120, an age resistor 0.001-10, and a lubricant 0.01-50 parts. The material has no adverse effects on <b>photog.</b> properties of the photosensitive materials and shows improved phys. strength under low temp. conditions, injection- <b>molding</b> properties, and applicability to recycling.				
ST	<b>photog film packaging</b> material thermoplastic resin polybutadiene elastomer; lubricant polybutadiene rubber <b>photog</b> material <b>packaging</b> film				
IT	Packaging materials (films; <b>packaging</b> material for photosensitive materials, comprising thermoplastic <b>resins</b> , polybutadiene elastomers, antioxidants, and lubricants)				
IT	Polysiloxanes, uses RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (lubricants; <b>packaging</b> material for photosensitive materials, comprising thermoplastic <b>resins</b> , polybutadiene elastomers, antioxidants, and lubricants)				
IT	Butadiene rubber, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (of 1,2-configuration; <b>packaging</b> material for photosensitive materials, comprising thermoplastic <b>resins</b> , polybutadiene elastomers, antioxidants, and lubricants)				
IT	Antioxidants Lubricants ( <b>packaging</b> material for photosensitive materials, comprising thermoplastic <b>resins</b> , polybutadiene elastomers, antioxidants, and lubricants)				
IT	Carbon black, uses RL: MOA (Modifier or additive use); USES (Uses) ( <b>packaging</b> material for photosensitive materials, comprising thermoplastic <b>resins</b> , polybutadiene elastomers, antioxidants, and lubricants)				
IT	<b>Plastic</b> films (thermo-; <b>packaging</b> material for photosensitive materials, comprising thermoplastic <b>resins</b> , polybutadiene elastomers, antioxidants, and lubricants)				
IT	<b>Plastics</b> , uses RL: TEM (Technical or engineered material use); USES (Uses)				

(thermoplastics; **packaging** material for photosensitive materials, comprising thermoplastic **resins**, polybutadiene elastomers, antioxidants, and lubricants)

IT 9003-17-2  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (butadiene rubber, of 1,2-configuration; **packaging** material for photosensitive materials, comprising thermoplastic **resins**, polybutadiene elastomers, antioxidants, and lubricants)

IT 9002-88-4, Polyethylene  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (high-d. and low-d.; **packaging** material for photosensitive materials, comprising thermoplastic **resins**, polybutadiene elastomers, antioxidants, and lubricants)

IT 9016-00-6, Dimethylsilanediol homopolymer, sru 31900-57-9,  
 Dimethylsilanediol homopolymer  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (lubricant; **packaging** material for photosensitive materials, comprising thermoplastic **resins**, polybutadiene elastomers, antioxidants, and lubricants)

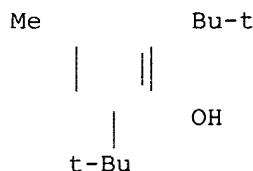
IT 301-02-0, Oleamide 1592-23-0, Calcium stearate  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (**packaging** material for photosensitive materials, comprising thermoplastic **resins**, polybutadiene elastomers, antioxidants, and lubricants)

IT 25213-02-9, Ethylene-1-hexene copolymer  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (**packaging** material for photosensitive materials, comprising thermoplastic **resins**, polybutadiene elastomers, antioxidants, and lubricants)

IT 128-37-0, 2,6-Di-tert-butyl-4-methylphenol, uses 6683-19-8  
 , Irganox 1010 31570-04-4, Tris(2,4-di-tert-butyl-phenyl) phosphite  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**packaging** material for photosensitive materials, comprising thermoplastic **resins**, polybutadiene elastomers, antioxidants, and lubricants)

IT 128-37-0, 2,6-Di-tert-butyl-4-methylphenol, uses 6683-19-8  
 , Irganox 1010  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**packaging** material for photosensitive materials, comprising thermoplastic **resins**, polybutadiene elastomers, antioxidants, and lubricants)

RN 128-37-0 HCPLUS  
 CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (9CI) (CA INDEX NAME)



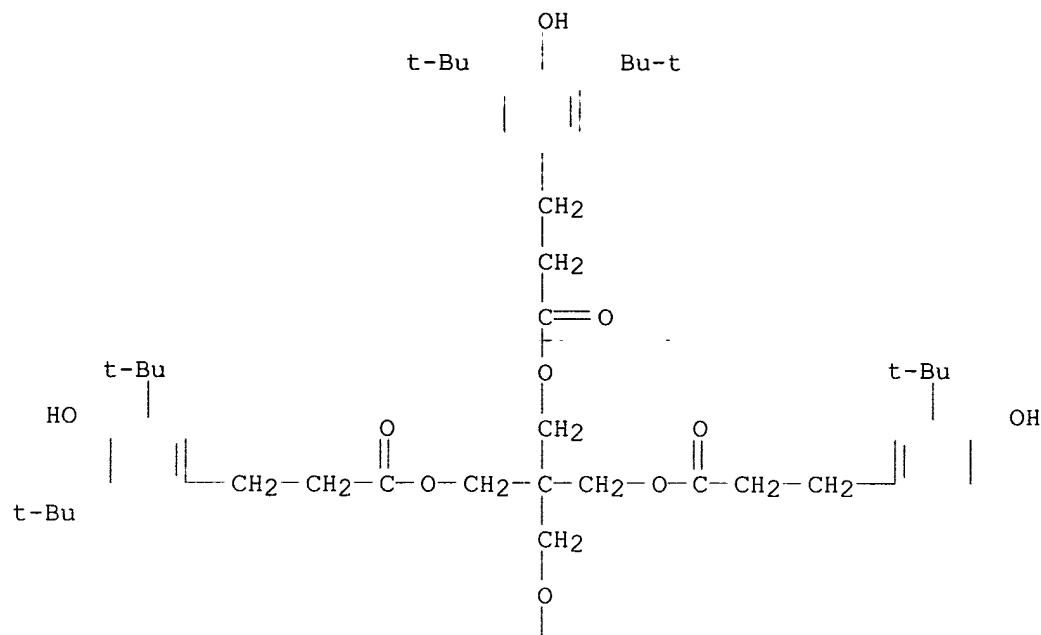
RN 6683-19-8 HCPLUS  
 CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,

WALKE 09/964588

Page 16

2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

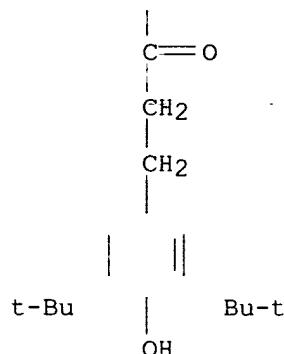
PAGE 1-A



PAGE 1-B

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PAGE 2-A



L40 ANSWER 6 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
 AN 2000:143336 HCAPLUS  
 DN 132:187589  
 TI **Molded product having improved formability and pigment dispersibility for photographic material and photographic material packaged with it**  
 IN Akao, Mutsuo  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 34 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G03C003-00  
 ICS G03C003-00  
 CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and Other Reprographic Processes)  
 Section cross-reference(s): 38  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000066336	A2	20000303	JP 1998-234082	19980820

AB The **molded** product is formed with a **resin** compn. comprising (a) 100 wt. parts of a thermoplastic **resin**, excluding poly(vinyl chloride), poly(vinylidene chloride), and chlorinated polyolefin **resin**, (b) 0.001-20 wt. parts (as total wt.) of .gtoreq.1 of a lubricant, a surfactant, and an antioxidant, and (c) 0.1-150 wt. parts of .gtoreq.1 **plasticizer(s)**. Photog materials **packed** with the material and a moistureproof **packaging** material showing moisture permeability .ltoreq.10 g/m<sup>2</sup>-24 h, measured under JIS Z 0208 condition B, are also claimed. The product also has improved anti-bleeding property and high low-temp. strength.  
 ST thermoplastic **resin** photog film patrone; magazine photog film thermoplastic **resin**; moistureproof packaging photog film  
 IT **Photographic films**  
 (color; moistureproof packaging and **molded** thermoplastic patrone for photog. films)  
 IT **Plasticizers**  
 (moistureproof packaging and **molded** thermoplastic patrone for photog. films)  
 IT Water-resistant materials

Water-resistant materials  
(packaging; moistureproof packaging and molded thermoplastic patrone for photog. films)

IT Containers  
(patrone; moistureproof packaging and molded thermoplastic patrone for photog. films)

IT Linear low density polyethylenes  
RL: DEV (Device component use); USES (Uses)  
(patrone; moistureproof packaging and molded thermoplastic patrone for photog. films)

IT Antioxidants  
Lubricants  
Surfactants  
(thermoplastic patrone contg.; moistureproof packaging and molded thermoplastic patrone for photog. films)

IT Plastics, uses  
RL: DEV (Device component use); USES (Uses)  
(thermoplastics, patrone; moistureproof packaging and molded thermoplastic patrone for photog. films)

IT Packaging materials  
Packaging materials  
(water-resistant; moistureproof packaging and molded thermoplastic patrone for photog. films)

IT 74-85-1D, Ethene, polymers with .alpha.-olefins, polymers with .alpha.-olefins, polymers with .alpha.-olefins, uses  
RL: DEV (Device component use); USES (Uses)  
(LLDPE, patrone; moistureproof packaging and molded thermoplastic patrone for photog. films)

IT 9010-79-1  
RL: DEV (Device component use); USES (Uses)  
(patrone; moistureproof packaging and molded thermoplastic patrone for photog. films)

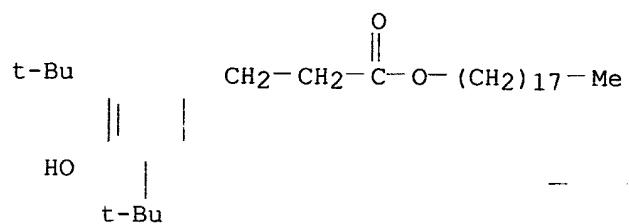
IT 25213-02-9, Ethylene-1-hexene copolymer  
RL: DEV (Device component use); USES (Uses)  
(patrone; packaging and molded thermoplastic patrone for photog. films)

IT 112-84-5, Erucic amide 301-02-0, Oleic acid amide stearate 2082-79-3, Irganox 1076 6683-19-8, Irganox 1010 31570-04-4, Irgafos 168  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(thermoplastic patrone contg.; moistureproof packaging and molded thermoplastic patrone for photog. films)

IT 2082-79-3, Irganox 1076 6683-19-8, Irganox 1010  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(thermoplastic patrone contg.; moistureproof packaging and molded thermoplastic patrone for photog. films)

RN 2082-79-3 HCAPLUS

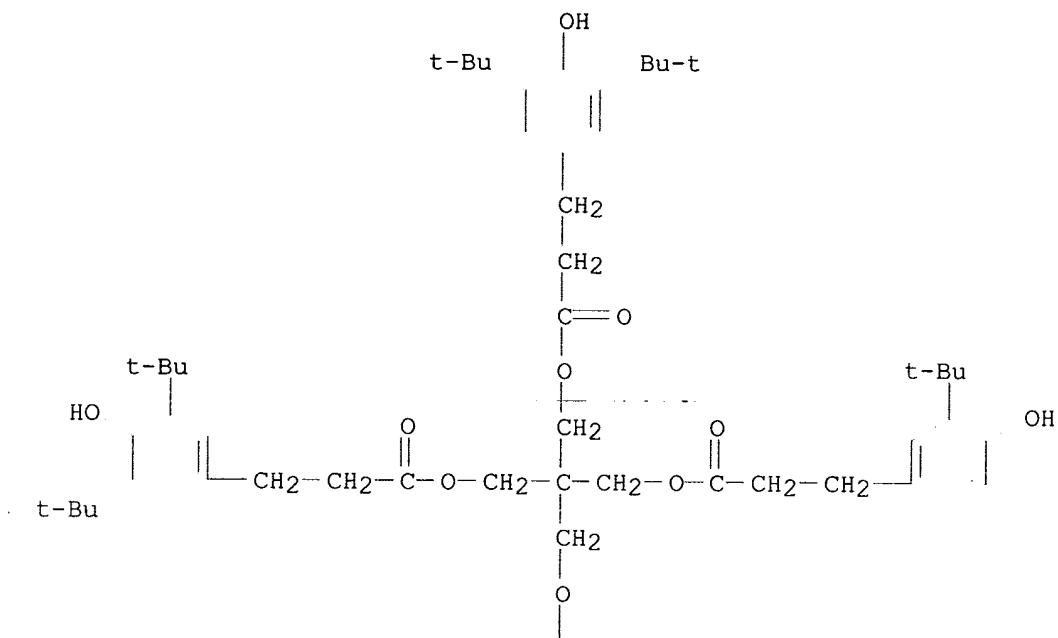
CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl ester (9CI) (CA INDEX NAME)



RN 6683-19-8 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,  
2,2-bis[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-  
oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

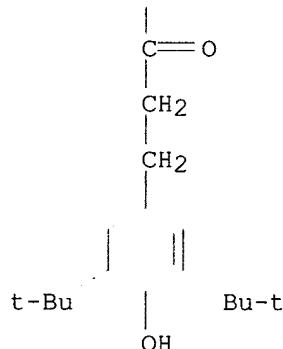
PAGE 1-A



PAGE 1-B

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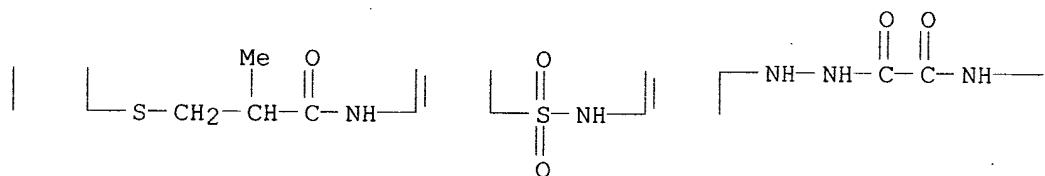
PAGE 2-A



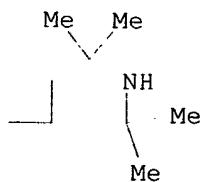
L40 ANSWER 7 OF 22 HCPLUS COPYRIGHT 2002 ACS  
 AN 1999:277505 HCPLUS  
 DN 130:344991  
 TI Preparation of solid processing agent for silver halide  
     photography and processing of silver halide  
     photographic material  
 IN Shimizu, Hiroshi; Sato, Atsushi  
 PA Konica Co., Japan  
 SO Jpn. Kokai Tokkyo Koho, 39 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G03C005-26  
     ICS G03C005-29  
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and  
     Other Reprographic Processes)  
 FAN.CNT 1  
 PATENT NO.            KIND    DATE            APPLICATION NO.    DATE

PI JP 11119383 A2 19990430 JP 1997-278659 19971013  
 AB The title solid processing agent is prep'd. by mixing materials having a bulk d. of .1toreq.1.0 g/mL with other materials having a bulk d. of larger than that of the materials to make the bulk d. after mixing to .gtoreq.1.0 g/mL or **molding** the materials alone or after mixing with other materials to particle size 0.1-10 mm. A **Ag halide photog.** material contg. a hydrazine compd. is processed with the solid processing agent. The quantity of the solid agent remaining in the wrapping material after opening can be reduced.  
 ST solid **photog** processing agent bulk d; particle size solid  
 IT **Photographic** processing  
     (bulk d. or particle size-controlled solid **photog**. processing agent)  
 IT 6381-77-7, Sodium erythorbate  
     RL: TEM (Technical or engineered material use); USES (Uses)  
     (bulk d. or particle size-controlled solid **photog**. processing agent)  
 IT 188648-44-4  
     RL: DEV (Device component use); MOA (Modifier or additive use);  
     USES (Uses)  
     (solid **photog**. processing agent for **photog**. material contg. hydrazine)  
 IT 188648-44-4  
     RL: DEV (Device component use); MOA (Modifier or additive use);  
     USES (Uses)  
     (solid **photog**. processing agent for **photog**. material contg. hydrazine)  
 RN 188648-44-4 HCPLUS  
 CN Acetic acid, oxo[(2,2,6,6-tetramethyl-4-piperidinyl)amino]-,  
 2-[4-[[[3-[[3-(cyclohexylthio)-2-methyl-1-oxopropyl]amino]phenyl]sulfonyl]amino]phenyl]hydrazide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



AN 1998:631374 HCPLUS  
 DN 129:283376  
 TI **Injection-molded product for photographic film**  
 patronne  
 IN Akao, Mutsuo  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 42 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G03C003-00  
 ICS G03C003-00  
 CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and  
 Other Reprographic Processes)  
 Section cross-reference(s): 38, 67  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10254094	A2	19980925	JP 1997-70843	19970307
	US 6013723	A	20000111	US 1997-982516	19971202

PRAI JP 1996-323149 19961203  
 JP 1997-52852 19970307  
 JP 1997-70843 19970307

AB The injection-molded product comprises (1) a thermoplastic resin .gtoreq.30% which is polymd. using a single site catalyst contg. .gtoreq.1 of Zr, Ti, Hf, and/or Va metallocene complex and has the moil. wt. distribution 1.1-1.5, (2) a lubricant and/or a hydrotalcite 0.01-10%, and (3) an antioxidant 0.001-1.0%. The patronne provided stable phys. properties and did not gave adverse effects on a photog. film.

ST injection molded patronne thermoplastic resin;  
**photog** film patronne

IT Crystal structure types  
 (hydrotalcite; injection-molded product for photog.  
 film patronne)

IT Antioxidants  
 Photographic films  
 Polymerization catalysts  
 (injection-molded product for photog. film  
 patronne)

IT 1291-32-3, Bis(cyclopentadienyl)zirconium dichloride  
 RL: CAT (Catalyst use); USES (Uses)  
 (injection-molded product for photog. film  
 patronne)

IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene 25087-34-7,  
 Butene-1-ethylene copolymer  
 RL: DEV (Device component use); USES (Uses)  
 (injection-molded product for photog. film  
 patronne)

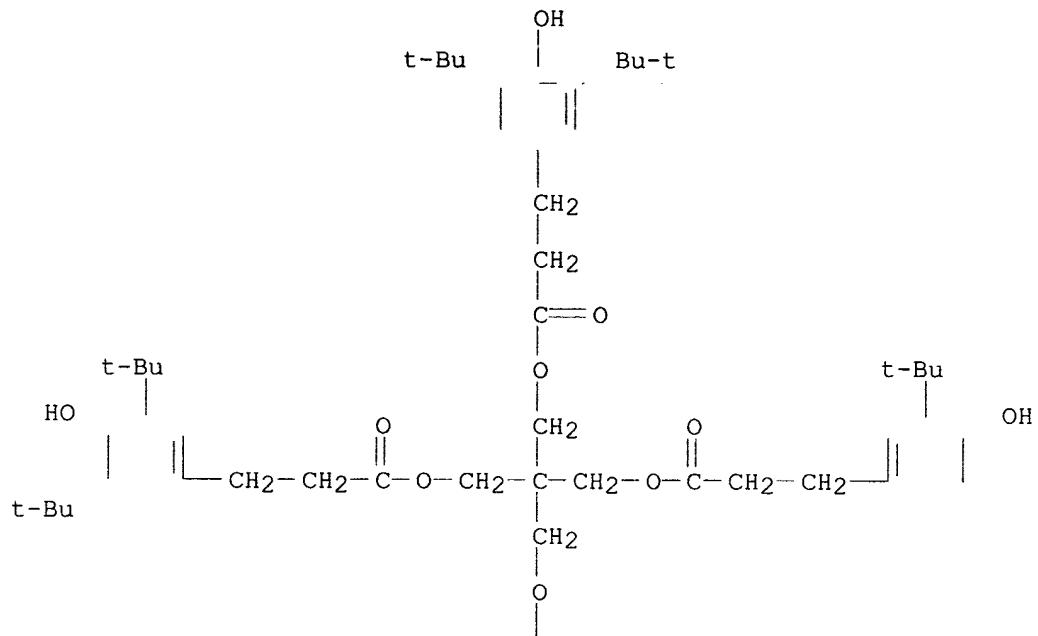
IT 301-02-0, Oleic acid amide 593-29-3, Potassium stearate  
 6683-19-8, Irganox 1010  
 RL: DEV (Device component use); MOA (Modifier or additive use);  
 USES (Uses)  
 (injection-molded product for photog. film  
 patronne)

IT 6683-19-8, Irganox 1010  
 RL: DEV (Device component use); MOA (Modifier or additive use);  
 USES (Uses)  
 (injection-molded product for photog. film  
 patronne)

RN 6683-19-8 HCPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,  
 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

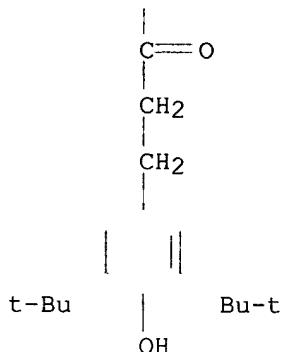
PAGE 1-A



PAGE 1-B

Bu-t

PAGE 2-A



L40 ANSWER 9 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1998:397944 HCAPLUS  
 DN 129:128901  
 TI **Injection molded products for photographic film**  
 IN Akao, Mutsuo  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 49 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G03C003-00  
 ICS G03C003-00  
 CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and Other Reprographic Processes)  
 Section cross-reference(s): 38  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10161274	A2	19980619	JP 1996-323149	19961203
	US 6013723	A	20000111	US 1997-982516	19971202
PRAI	JP 1996-323149		19961203		
	JP 1997-52852		19970307		
	JP 1997-70843		19970307		
AB	The title products are made up of .gtoreq.30 % of thermoplastics with a mol. wt. distribution of 1.1-5.0, wherein the thermoplastics are prep'd. using single site catalysts and contain at least lubricants and oxidn. inhibitors. The products show excellent mech. strength and antiblocking properties.				
ST	<b>photog film</b> thermoplastic injection <b>molded</b> product				
IT	<b>Photographic films</b> (injection <b>molded</b> products for <b>photog. film</b> )				
IT	Monoglycerides Polysiloxanes, uses RL: MOA (Modifier or additive use); USES (Uses)				
	(injection <b>molded</b> products for <b>photog. film</b> )				
IT	<b>Molding of plastics</b> and rubbers (injection; injection <b>molded</b> products for <b>photog. film</b> )				

IT Polymerization catalysts  
 (single site; injection molded products for photog. film)

IT 112-84-5, Erucic amide 115-86-6, Triphenylphosphate 301-02-0  
 557-05-1, Zinc stearate 593-29-3, Potassium stearate 6683-19-8  
 , Irganox 1010 13463-67-7, Titania, uses 24938-91-8, Polyoxyethylene tridecylether 81541-12-0, Gel All MD 110900-80-6, Butadiene-ethylene-styrene block copolymer  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (injection molded products for photog. film  
 )

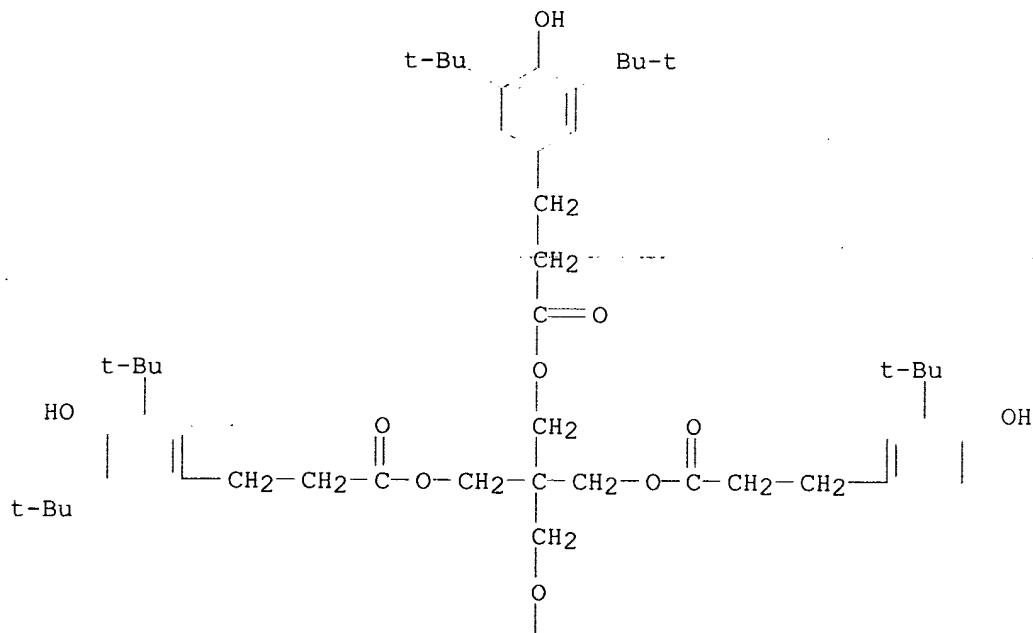
IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene 9003-53-6,  
 Polystyrene 9003-55-8, Butadiene-styrene copolymer 9010-79-1  
 25087-34-7, Butene-1-ethylene copolymer  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (injection molded products for photog. film  
 )

IT 6683-19-8, Irganox 1010  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (injection molded products for photog. film  
 )

RN 6683-19-8 HCAPLUS

CN Benzene propanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,  
 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

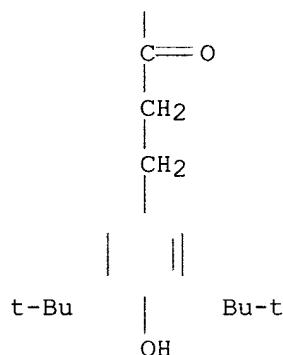
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PAGE 1-B

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PAGE 2-A

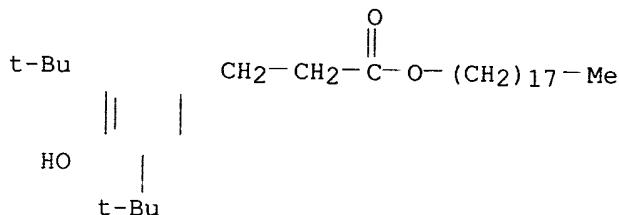


L40 ANSWER 10 OF 22 HCPLUS COPYRIGHT 2002 ACS  
AN 1998:62296 HCPLUS  
DN 128:103139  
TI Injection **moldings** for **photographic** materials and  
manufacture thereof with good appearances, strength, dimensional  
stability, light shielding, heat resistance, and slip and antistatic  
properties  
IN Akao, Mutsuo  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 18 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM G03C003-00  
ICS G03C003-00  
CC 38-3 (**Plastics** Fabrication and Uses)  
Section cross-reference(s): 74  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10010683 US 5906813	A2 A	19980116 19990525	JP 1996-162043 US 1997-880504	19960621 19970623
PRAI	JP 1996-162043 JP 1996-177642		19960621 19960708		
AB	The title <b>moldings</b> such as advanced photo system patron, etc. comprise .gtoreq.50% styrene <b>polymers</b> (melt index 3.0-4.0 g/10 min; Rockwell M hardness .gtoreq.38; Izod impact strength .gtoreq.2.0 kg-cm/cm, bending modulus .gtoreq.20,000 kg/cm <sup>2</sup> , Vicat softening temp. .gtoreq.78.degree.), 0.01-20% lubricants or surfactants, .gtoreq.3% thermoplastics heat-treated at .gtoreq.150.degree. two times or more, and 0.01-20% antioxidants, deodorants, and fragrances. A film winding core was <b>molded</b> from butadiene rubber-reinforced polystyrene, Mg stearate, polyethylene wax, ethylene-4-methyl-1-pentene copolymer, TiO <sub>2</sub> , pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate], and octadecyl 3-(4-hydroxy-3,5-di-tert-butylphenyl)propionate.				
ST	photog film patron injection <b>molding</b>				
	polystyrene				
IT	Antioxidants				
	Antistatic agents				
	Lubricants				
	<b>Photographic apparatus</b>				
	(injection <b>moldings</b> for photog. materials and manuf. thereof with good appearances, strength, dimensional stability, light shielding, heat resistance, and slip and antistatic properties)				
IT	Butadiene rubber, uses				
	Polyolefins				
	RL: DEV (Device component use); IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(injection <b>moldings</b> for photog. materials and manuf. thereof with good appearances, strength, dimensional stability, light shielding, heat resistance, and slip and antistatic properties)				
IT	9003-17-2P				
	RL: DEV (Device component use); IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(butadiene rubber, injection <b>moldings</b> for photog. materials and manuf. thereof with good appearances, strength, dimensional stability, light shielding, heat resistance, and slip and antistatic properties)				
IT	25213-96-1P, Ethylene-4-methylpentene-1 copolymer				
	RL: DEV (Device component use); IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(injection <b>moldings</b> for photog. materials and manuf. thereof with good appearances, strength, dimensional stability, light shielding, heat resistance, and slip and antistatic properties)				
IT	2082-79-3, Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate 6683-19-8, Pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]			9002-88-4	
	RL: MOA (Modifier or additive use); USES (Uses)				
	(injection <b>moldings</b> for photog. materials and manuf. thereof with good appearances, strength, dimensional stability, light shielding, heat resistance, and slip and antistatic properties)				
IT	2082-79-3, Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate 6683-19-8, Pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]				

RL: MOA (Modifier or additive use); USES (Uses)  
 (injection moldings for photog. materials and  
 manuf. thereof with good appearances, strength, dimensional stability,  
 light shielding, heat resistance, and slip and antistatic properties)

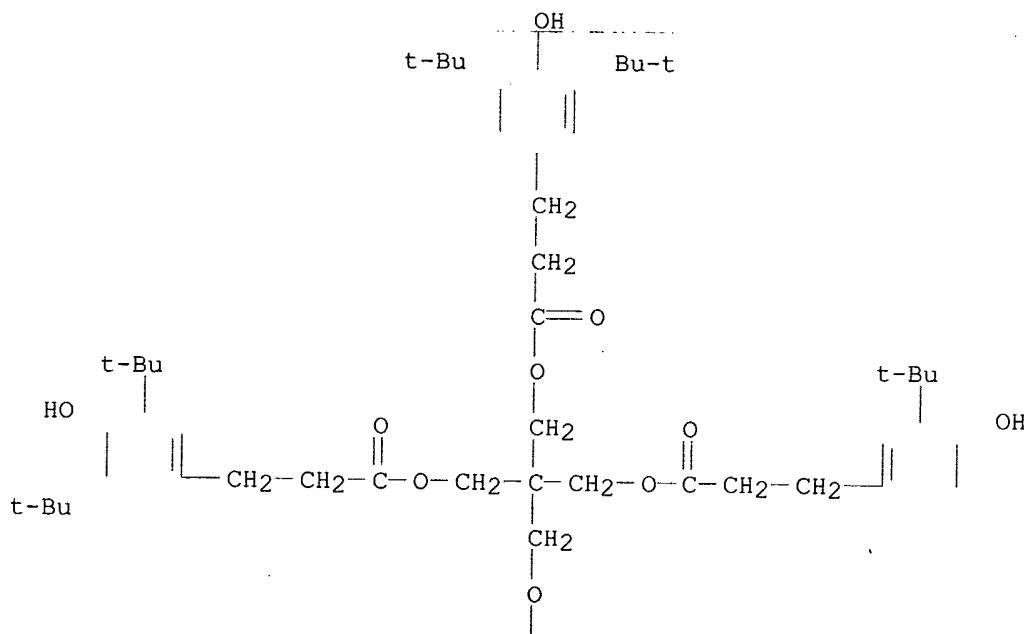
RN 2082-79-3 HCPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl  
 ester (9CI) (CA INDEX NAME)

RN 6683-19-8 HCPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,  
 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-  
 oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

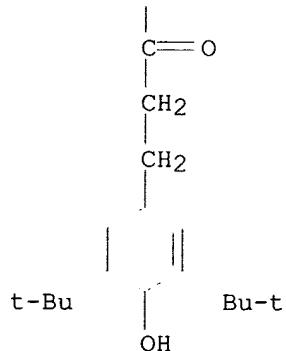
PAGE 1-A



PAGE 1-B

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PAGE 2-A



L40 ANSWER 11 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
AN 1996:488704 HCAPLUS

AN 1990.40070  
DN 125-116312

DN 123.110312  
TI Injection molded articles for handling and packaging photographic film

IN Akae, Mutsuo; Suzuki, Osamu

IN Akao, Matsuo, Suzuki, Osamu  
PA Fuji Photo Film Co., Ltd. Japan

PA Fuji Photo Film Co., Ltd.  
SO Eur Pat Appl 79 300

50 EUI. Pat. App.  
CODEN: EPXXDW

DT Patent

Patent  
English

LA English  
IC ICM C08L101-00

ICM C08E101-00  
ICS G03C003-00

IC3 G03C003-00  
37-6 (Plastics

CC 37-6 (Plastics Manufacture and Processing)  
Section cross-reference(s): 38, 74  
EAN CNT 1

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO. DATE

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

PI EP 717079 A2 19960619 EP 1995-116992 19951027  
EP 717079 A3 19980617

R: DE, GB, NL

JP 08118394 A2 19960514 JP 1994-264222 19941027  
US 5827584 A 19981027 US 1995-549235 19951027

PRAI JP 1994-264222 19941027

AB An injection **molded** article for the title use is formed of a noncryst. **resin** compn. contg. 50 wt% or more of a noncryst. **resin** having a melt flow rate of from 1 to 60 g/10 min, a flexural modulus of elasticity of 20,000 kg/cm<sup>2</sup> or more and a thermal deformation temp. of 70 .degree.C or higher, from 0.1 to 45 wt% of one or more of a rubbery material, a thermoplastic elastomer and an ethylene copolymer **resin**, from 0.01 to 49.9 wt% of one or more of a light-shielding material and a fibrous filler and from 0.001 to 20 wt% of one or more of an antioxidant, an age resistor, an UV absorber, a fatty acid metal salt, a radical scavenger, a hydrate double salt compd. and an oxidn. inhibitory synergistic effect-providing agent. A **film** spool was manufd. by injection **molding** of a compn. contg. 90 parts butadiene-styrene block copolymer contg. 0.1% hindered phenol antioxidant and 0.3% Ca stearate (I) lubricant, 10 parts pellets contg. furnace black light-shielding agent 3.5, I 0.1, poly(dimethylsiloxane) 15, Et acrylate-ethylene copolymer 50, hydrotalcite 1.3, antioxidant 0.1, and polystyrene 30%.

ST injection **molding photog film**

**packaging handling; hydrotalcite photog film**  
**packaging material; calcium stearate photog film**  
**packaging material; polystyrene blend photog**  
**film packaging material; spool photog**  
**film plastic; fatty salt photog film**  
**packaging material; radical scavenger photog**  
**film packaging material; UV absorber photog**  
**film packaging material; antioxidant photog**  
**film packaging material; styrene copolymer**  
**photog film packaging handling; butadiene**  
**copolymer photog film packaging handling;**  
**acrylate copolymer photog film packaging**  
**handling; ethylene copolymer photog film**  
**packaging handling**

IT Antioxidants

Antistatic agents

Containers

Lubricants

(injection **molded** articles for handling and **packaging**  
**photog. film**)

IT Siloxanes and Silicones, uses

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(injection **molded** articles for handling and **packaging**  
**photog. film**)

IT Polycarbonates, properties

RL: DEV (Device component use); POF (Polymer in formulation); PRP (Properties); USES (Uses)

(injection **molded** articles for handling and **packaging**  
**photog. film**)

IT Plastics, molded

RL: DEV (Device component use); PRP (Properties); USES (Uses)

(injection **molded** articles for handling and **packaging**  
**photog. film**)

IT Carbon black, uses

RL: DEV (Device component use); MOA (Modifier or additive use); USES

(Uses)  
(light-shielding agent; injection **molded** articles for handling and **packaging photog. film**)

IT Zeolites, uses  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(light-shielding agents; injection **molded** articles for handling and **packaging photog. film**)

IT Paraffin oils  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(lubricants; injection **molded** articles for handling and **packaging photog. film**)

IT Carbon fibers, uses  
Glass fibers, uses  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(reinforcing agents; injection **molded** articles for handling and **packaging photog. film**)

IT Rubber, synthetic  
RL: DEV (Device component use); POF (Polymer in formulation); PRP (Properties); USES (Uses)  
(EPDM, injection **molded** articles for handling and **packaging photog. film**)

IT Light stabilizers  
(UV, injection **molded** articles for handling and **packaging photog. film**)

IT **Photography**  
(app., film spools; injection **molded** articles for handling and **packaging photog. film**)

IT Vinyl compounds, uses  
RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
(aryl, **polymers**, injection **molded** articles for handling and **packaging photog. film**)

IT Rubber, synthetic  
RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
(diene, injection **molded** articles for handling and **packaging photog. film**)

IT Amides, uses  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(fatty, lubricants; injection **molded** articles for handling and **packaging photog. film**)

IT Fatty acids, uses  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(metal salts, lubricants; injection **molded** articles for handling and **packaging photog. film**)

IT Rubber, synthetic  
RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
(polyolefin, injection **molded** articles for handling and **packaging photog. film**)

IT 2440-22-4, 2-(2-Hydroxy-5-methylphenyl)benzotriazole  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(UV absorber; injection **molded** articles for handling and **packaging photog. film**)

IT 61167-58-6, 2-tert-Butyl-6-(3-tert-butyl-5-methyl-2-hydroxybenzyl)-4-methylphenyl acrylate  
RL: DEV (Device component use); MOA (Modifier or additive use);

## USES (Uses)

(antioxidant; injection **molded** articles for handling and  
**packaging photog. film**)

IT 96639-03-1, Electrostripper H  
 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
 (injection **molded** articles for handling and **packaging photog. film**)

IT 9003-07-0, Polypropylene 9003-53-6, Polystyrene 9010-86-0, Ethyl acrylate-ethylene copolymer 9016-00-6, Dimethylsilanediol homopolymer, sru 31900-57-9, Dimethylsilanediol homopolymer 106107-54-4, Butadiene-styrene block copolymer 106974-54-3, Butadiene-styrene graft copolymer  
 RL: DEV (Device component use); POF (Polymer in formulation); PRP (Properties); USES (Uses)  
 (injection **molded** articles for handling and **packaging photog. film**)

IT 471-34-1, Calcium carbonate, uses 7727-43-7, Barium sulfate  
 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
 (light-shielding agent; injection **molded** articles for handling and **packaging photog. film**)

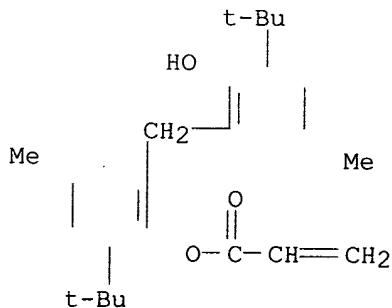
IT 12304-65-3, Hydrotalcite  
 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
 (light-shielding agents; injection **molded** articles for handling and **packaging photog. film**)

IT 1592-23-0, Calcium stearate  
 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
 (lubricant; injection **molded** articles for handling and **packaging photog. film**)

IT 61167-58-6, 2-tert-Butyl-6-(3-tert-butyl-5-methyl-2-hydroxybenzyl)-4-methylphenyl acrylate  
 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
 (antioxidant; injection **molded** articles for handling and **packaging photog. film**)

RN 61167-58-6 HCPLUS

CN 2-Propenoic acid, 2-(1,1-dimethylethyl)-6-[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]methyl]-4-methylphenyl ester (9CI) (CA INDEX NAME)



L40 ANSWER 12 OF 22 HCPLUS COPYRIGHT 2002 ACS  
 AN 1995:331530 HCPLUS  
 DN 122:147154

TI Polyolefin molding and packaging for photographic material  
 IN Akao, Mutsuo; Suzuki, Osamu  
 PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 24 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G03C003-00  
 ICS G03C003-00  
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
 Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06317881	A2	19941115	JP 1993-63555	19930323
AB	The molding comprises polyethylene, ethylene-.alpha.-olefin copolymer, polypropylene, and/or propylene-.alpha.-olefin copolymer (crystn. degree .gtoreq.60%, -mol--wt--distribution 1.5-10, MFR 0.01-70 g/10 min) .gtoreq.50, a lubricant 0.01-25, and an antioxidant 0.001-1.0 wt.%. The molding may be inflation films, spools, patrones, photog. film units with a lense, etc. The molding comprises .gtoreq.50 wt.% polyolefin and 0.01-10 wt.% fatty acid metal salts, zeolite, and/or hydrotalcite. The packaging comprises an Ag halide photog. material with ISO sensitivity .gtoreq.100 sealed with a container with moisture permeability .ltoreq.10 g/24 h-m <sup>2</sup> .				
ST	polyolefin molding photog material packaging				
IT	Carbon black, uses Zeolites, uses RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (light-intercepting; polyolefin molding packaging of Ag halide photog. materials)				
IT	Cameras Photographic films (polyolefin molding packaging of Ag halide photog. materials)				
IT	Alkenes, uses RL: DEV (Device component use); POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (polymers, polyolefin molding packaging of Ag halide photog. materials)				
IT	6683-19-8 RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (antioxidant; polyolefin molding packaging of Ag halide photog. materials)				
IT	7631-86-9, Silica, uses 12304-65-3, Hydrotalcite 13463-67-7, Titania, uses RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (light-intercepting; polyolefin molding packaging of Ag halide photog. materials)				
IT	557-04-0, Magnesium stearate 557-05-1, Zinc stearate RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (lubricant; polyolefin molding packaging of Ag halide photog. materials)				

IT 81541-12-0, 1,3-2,4-Di-p-methylbenzylidenesorbitol 87826-41-3,  
 1,3-2,4-Di(methylbenzylidene)sorbitol  
 RL: DEV (Device component use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (nucleating agent; polyolefin **molding packaging** of  
**Ag halide photog.** materials)

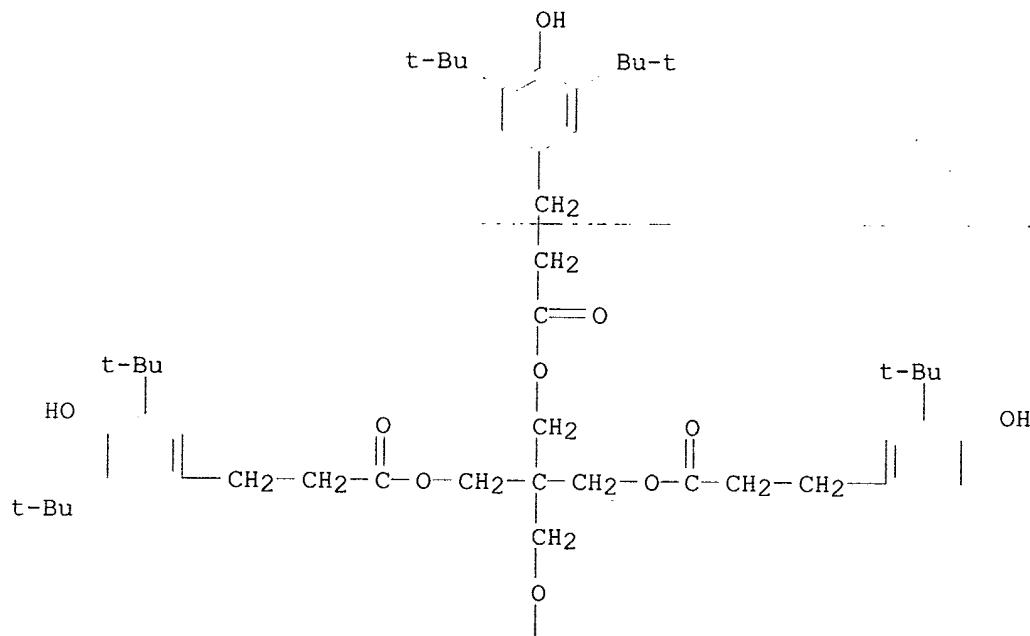
IT 9002-88-4 9003-07-0, Polypropylene 9010-79-1, Ethylene-propylene  
 copolymer 25087-34-7, 1-Butene-ethylene copolymer  
 RL: DEV (Device component use); POF (Polymer in formulation); TEM  
 (Technical or engineered material use); USES (Uses)  
 (polyolefin **molding packaging** of Ag  
**halide photog.** materials)

IT 6683-19-8  
 RL: DEV (Device component use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (antioxidant; polyolefin **molding packaging** of  
**Ag halide photog.** materials)

RN 6683-19-8 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,  
 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-  
 oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

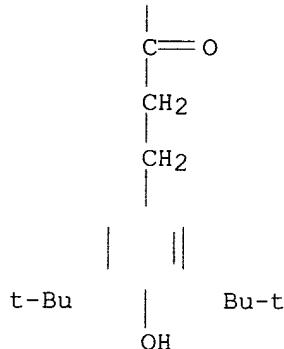
PAGE 1-A



PAGE 1-B

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PAGE 2-A



L40 ANSWER 13 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1994:711824 HCAPLUS  
 DN 121:311824  
 TI Light shielding molding for photographic materials and its manufacture  
 IN Akao, Mutsuo; Kawamura, Makoto  
 PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G03C003-00  
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06186678	A2	19940708	JP 1992-337575	19921217

JP 3244236 B2 20020107

AB The shielding **mold** comprises surface-coated carbon black and/or Al powder having .gtoreq.2 heat history at 130.degree., and polyolefin **resin** having .gtoreq.2 heat history at .gtoreq.130.degree.. Colored master batch contg. 5-80 wt.% of carbon black and/or Al powder is prep'd. by melt mixing the polyolefin **resin** and surface-coated carbon black and/or Al powder at .gtoreq.130.degree., and the master batch is melt-mixing with dilg. thermoplastic **resin** at .gtoreq.130.degree. to give a colored thermoplastic **resin** for the **moldings**. Carbon black and Al powder is dispersed well in the **moldings**.

ST light shielding **molding photog film**; carbon black aluminum light shielding **molding**

IT **Photographic films**  
(light shielding **moldings for photog. films**)

IT Carbon black, uses  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(light shielding **moldings for photog. films**)

IT 2082-79-3 6683-19-8, Irganox 1010  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(antioxidant; light shielding **moldings for photog. films**)

IT 7429-90-5, Aluminum, uses  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(light shielding **moldings for photog. films**)

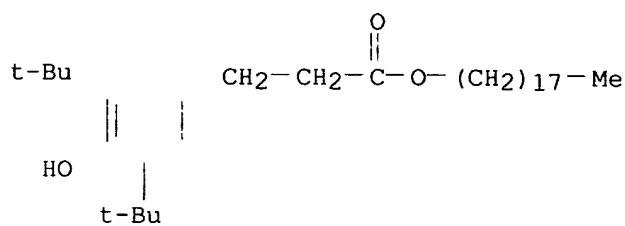
IT 9002-88-4, Polyethylene 9010-77-9, Acrylic acid-ethylene copolymer 25087-34-7, 1-Butene-ethylene copolymer 25213-96-1, Ethylene-4-methylpentene-1 copolymer 26221-73-8, Ethylene-1-octene copolymer  
RL: DEV (Device component use); POE (Polymer in formulation); USES (Uses)  
(light shielding **moldings for photog. films**)

IT 112-84-5, Erucic amide 557-04-0, Magnesium stearate  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(lubricant; light shielding **moldings for photog. films**)

IT 2082-79-3 6683-19-8, Irganox 1010  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(antioxidant; light shielding **moldings for photog. films**)

RN 2082-79-3 HCAPLUS

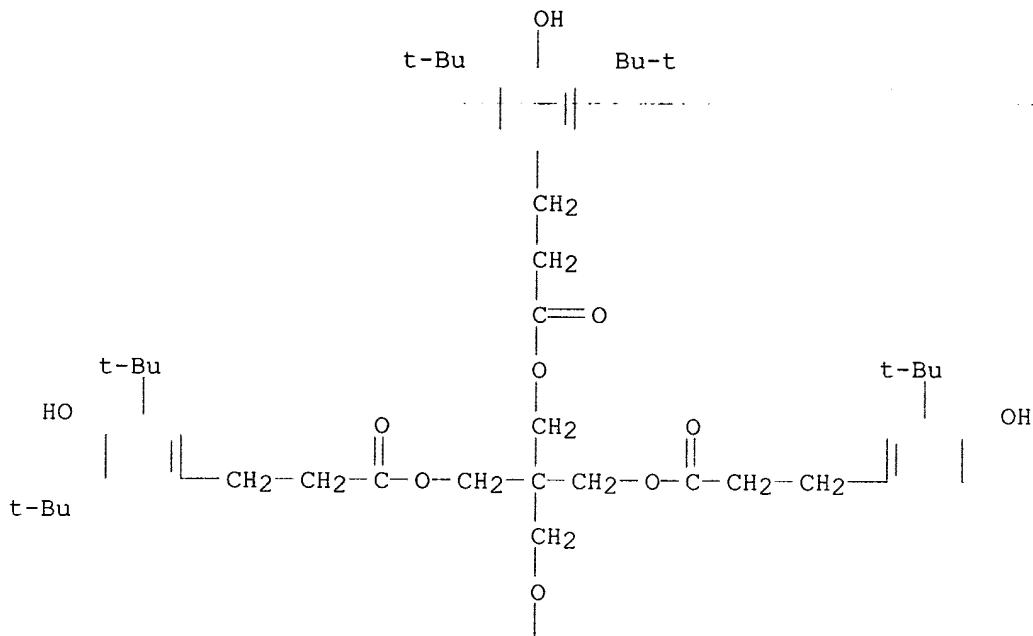
CN Benzene propanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl ester (9CI) (CA INDEX NAME)



RN 6683-19-8 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,  
2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-  
oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

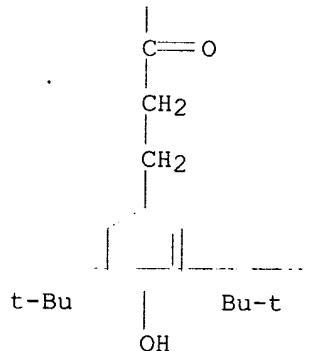
PAGE 1-A



PAGE 1-B

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PAGE 2-A



L40 ANSWER 14 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1994:591189 HCAPLUS  
 DN 121:191189  
 TI Moldings for package of photographic materials  
 IN Akao, Mutsuo; Kawamura, Makoto  
 PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokyo Koho, 18 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G03C003-00  
 ICS C08K005-00; C08L101-00  
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 06130565 A2 19940513 JP 1992-281658 19921020  
 JP 3095298 B2 20001003

AB The title **molding** contains .gt;req.3 wt.% of a thermoplastic **resin** having .gt;req.3 times of heat history at 140-350.degree. and an antioxidant. The **moldings** do not give adverse effects on the **photog.** properties. Thus, a mixt. of polyethylene **resin** granulated at 160.degree., carbon black and additives was melt-extruded at 170.degree., the resulting pellets were mixed with a compn. contg. ethylene-octene-1 copolymer and tetrakis[methylene-3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate]methane and extruded at 180.degree. into a light-shielding film.

ST **package photog film molding;**  
**thermoplastic resin antioxidant photog package**

IT **Photographic films**  
 (moldings for **package** for, comprising thermoplastic **resin** and antioxidant)

IT Recycling of **plastics** and rubbers  
 (of **photog. film package**)

IT Rubber, butadiene-styrene, uses  
 Siloxanes and Silicones, uses  
 RL: USES (Uses)  
 (photog. film package using)

IT 5530-30-3 6683-19-8 26523-78-4,  
 Tris(nonylphenyl)phosphite  
 RL: USES (Uses)  
 (antioxidant, thermoplastic **resin** contg., for **photog. film package**)

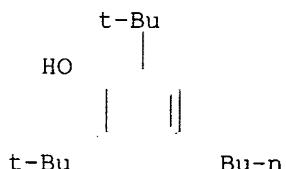
IT 9002-88-4, Polyethylene 9003-53-6, Polystyrene 9016-00-6, Dimethyl siloxane 25087-34-7, Butene-ethylene copolymer 26221-73-8, Ethylene-1-octene copolymer 31900-57-9, Dimethylsilanediol homopolymer  
 RL: USES (Uses)  
 (photog. film package using)

IT 9003-55-8  
 RL: USES (Uses)  
 (rubber, **photog. film package** using)

IT 5530-30-3 6683-19-8  
 RL: USES (Uses)  
 (antioxidant, thermoplastic **resin** contg., for **photog. film package**)

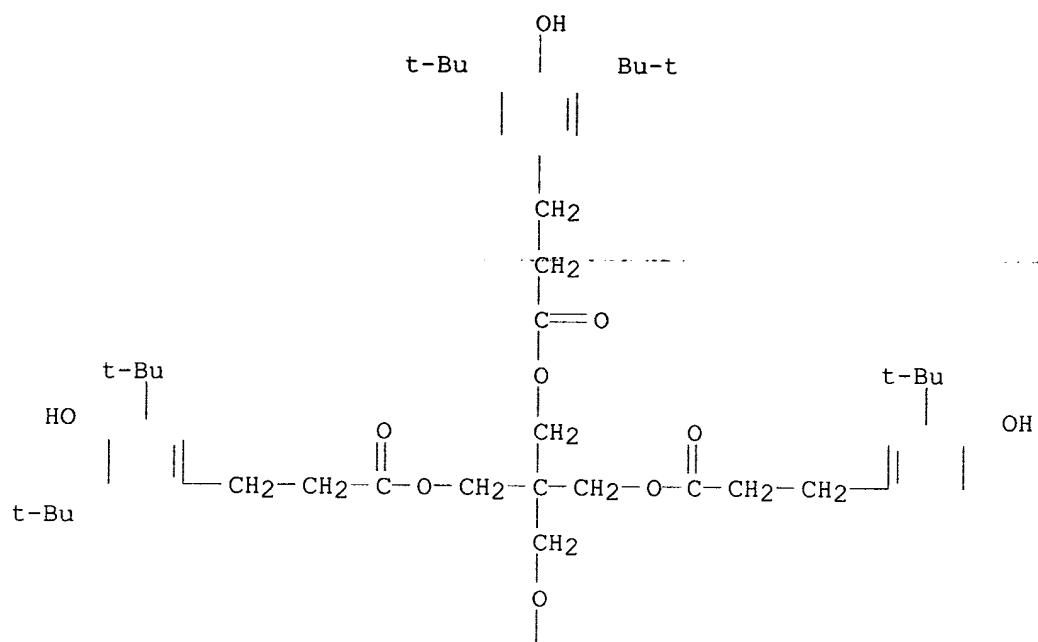
RN 5530-30-3 HCAPLUS

CN Phenol, 4-butyl-2,6-bis(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 6683-19-8 HCAPLUS  
 CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

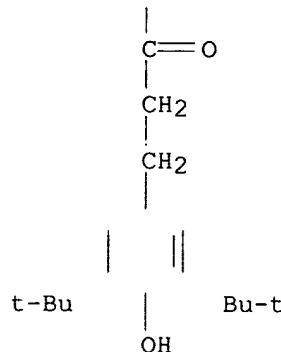
PAGE 1-A



PAGE 1-B

Bu-t

PAGE 2-A



L40 ANSWER 15 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1994:446497 HCAPLUS  
 DN 121:46497  
 TI **Molded article for photographic** photosensitive material  
 IN Akao, Mutsuo; Osanai, Hiroyuki  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Eur. Pat. Appl., 49 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 IC ICM G03C003-00  
 CC 74-2 (Radiation Chemistry, Photochemistry, and **Photographic** and Other Reprographic Processes)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 569950	A1	19931118	EP 1993-107680	19930511
	EP 569950	B1	19991208		
R: DE, GB					
	JP 06161039	A2	19940607	JP 1992-117758	19920511
	JP 3055582	B2	20000626		
	JP 06067357	A2	19940311	JP 1993-147838	19930618
	US 6069196	A	20000530	US 1999-225472	19990106
PRAI	JP 1992-117758	A	19920511		
	JP 1992-161029	A	19920619		
	US 1993-59265	A3	19930511		
AB	A <b>molded</b> article for a <b>photog.</b> photosensitive material formed of a <b>molding resin</b> compn. consisting essentially of 100 parts by wt. of a cryst. <b>resin</b> compn. comprising a cryst. <b>resin</b> and at least a lubricant or antistatic agent, 0.001 to 2 parts by wt. of an antioxidant, and 5 to 90 parts by wt. of an acrylic acid copolymer <b>resin</b> and a <b>molded</b> article for <b>photog.</b> photosensitive materials formed of a light-shielding thermoplastic <b>resin</b> compn. comprising a light-shielding material of which the surface has been treated with a surface-treating material and antioxidant are claimed. The <b>molded</b> article can inhibit bleeding out and thermal decompn. of antistatic agents, lubricants, and org. nucleating agents contained therein and can prevent various troubles induced therefrom.				
ST	<b>molded article resin photog film</b>				
IT	Acrylic <b>polymers</b> , uses				

RL: USES (Uses)  
 (molded package materials contg., for  
 photog. materials)

IT Photographic films  
 Photographic paper  
 (molded package materials for, cryst.  
 resins for)

IT Packaging materials  
 (molded resin, for photog. materials)

IT 112-84-5, Erucic acid amide 557-05-1, Zinc stearate 1843-05-6,  
 2-Hydroxy-4-octoxybenzophenone 2082-79-3, Octadecyl  
 3-(4-hydroxy-3,5-di-tert-butylphenyl)propionate 5793-94-2, Calcium  
 stearyl lactate 6683-19-8, Tetrakis[methylene-3-(3,5-di-tert-  
 butyl-4-hydroxyphenyl)propionate]methane. 9002-88-4, Polyethylene  
 9003-07-0, Polypropylene 9010-77-9, Acrylic acid-ethylene copolymer  
 9010-79-1, Ethylene-propylene copolymer 13463-67-7, Titanium dioxide,  
 uses 25087-34-7, 1-Butene-ethylene copolymer 25213-96-1,  
 Ethylene-4-methyl-1-pentene copolymer 26523-78-4,  
 Trinonylphenylphosphite 31566-31-1, Glycerin monostearate 81541-12-0,  
 Di(p-methylbenzylidene)sorbitol 87826-41-3, 1,3:2,4-  
 Di(methylbenzylidene)sorbitol 156031-33-3

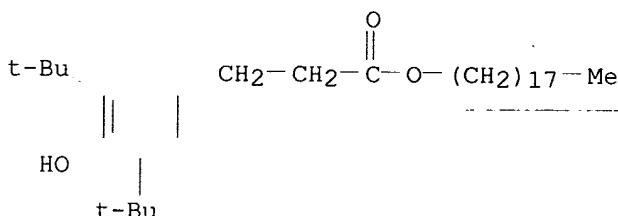
RL: USES (Uses)  
 (molded resin package materials contg.,  
 for photog. materials)

IT 2082-79-3, Octadecyl 3-(4-hydroxy-3,5-di-tert-  
 butylphenyl)propionate 6683-19-8, Tetrakis[methylene-3-(3,5-di-  
 tert-butyl-4-hydroxyphenyl)propionate]methane

RL: USES (Uses)  
 (molded resin package materials contg.,  
 for photog. materials)

RN 2082-79-3 HCAPLUS

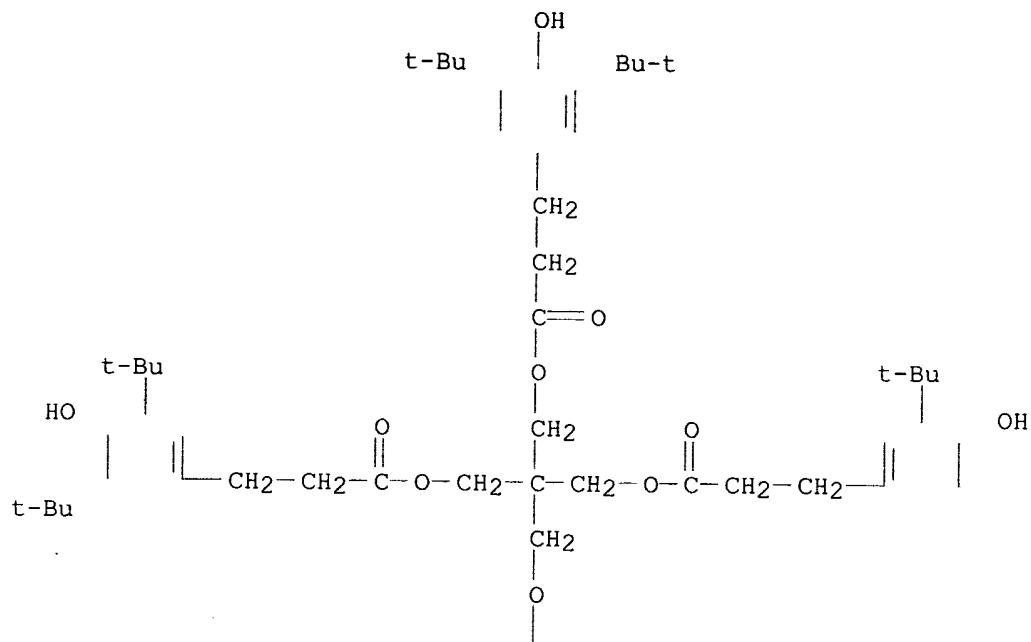
CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl  
 ester (9CI) (CA INDEX NAME)



RN 6683-19-8 HCAPLUS

CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,  
 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-  
 oxopropoxy)methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

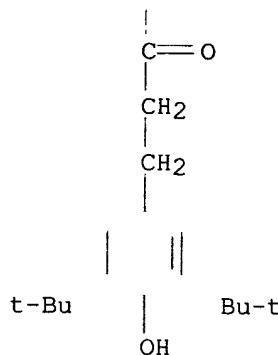
PAGE 1-A



PAGE 1-B

Bu-t

PAGE 2-A



L40 ANSWER 16 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1993:429609 HCAPLUS  
 DN 119:29609  
 TI Antifogging agents in thermoplastic **resin** composition for  
 non-dripping **packaging** of photosensitive materials  
 IN Akao, Mutsuo; Osanai, Hiroyuki; Kawamura, Makoto; Inoue, Koji  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Eur. Pat. Appl., 25 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 IC ICM G03C003-00  
 ICS C08L023-02; C08K005-10  
 CC 38-3 (**Plastics** Fabrication and Uses)  
 Section cross-reference(s): 74  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 524404 R: DE, GB	A1	19930127	EP 1992-109106	19920529
	JP 06118571	A2	19940428	JP 1991-123965	19910528
	JP 2797155	B2	19980917		
	JP 05210217	A2	19930820	JP 1992-214930	19920812
	JP 3089334	B2	20000918		
PRAI	JP 1991-123965	A	19910528		
	JP 1991-231639	A	19910911		
OS	MARPAT 119:29609				
AB	The title compn. useful for <b>molding films</b> and containers used in <b>packaging</b> photosensitive materials comprises a thermoplastic (e.g., ethylene copolymer) <b>resin</b> , .gtoreq.1 lubricant, an antioxidant, an org. nucleating agent, and a dripproofing agent which inhibits and equalizes the bleeding-out of the lubricant, antioxidant and the nucleating agent. Thus, a container for photog. film was <b>molded</b> from a mixt. of ethylene-propylene random copolymer (3.2% ethylene) 60, ethylene-propylene block copolymer (21% ethylene) 38.9, oleic amide (lubricant) 0.10, glycerol monostearate (dripproofing agent) 0.2, 1,3,2,4- (dibenzylidene)sorbitol (org. nucleating agent) 0.1, CaCO <sub>3</sub> (inorg. nucleating agent) 0.2%, TiO <sub>2</sub> 0.3%, Irganox 1010 (phenolic antioxidant) 0.1, and Irganox 168 (P-contg. antioxidant) 0.1%. When the container was stored in a cold (10.degree.) room for a long period of time and taken out, water drops did not form on its surface.				

ST **packaging plastic** photosensitive material; container  
**photog film** propylene copolymer; dripproof container  
compn propylene copolymer; antifogging agent glycerol monostearate;  
glycerol monostearate antifogging agent container; nondripping  
**packaging polyolefin photog film**

IT **Photographic films**  
(packaging of, resistant to migration of lubricants,  
polyolefin compns. for)

IT Carbon black, uses  
RL: USES (Uses)  
(polyolefin **packaging** for photog. materials contg.,  
resistant to migration of lubricants)

IT Containers  
(resistant to migration of lubricants, for photosensitive materials,  
polyolefin compns. for)

IT **Packaging materials**  
(thermoplastic **resins** contg. migration inhibitors, for  
**photog. film**)

IT Amides, uses  
RL: USES (Uses)  
(fatty, bis-, lubricants, polyolefin compn. for resistant to migration  
of lubricants **packaging** of photosensitive materials contg.)

IT Alkenes, **polymers**  
RL: USES (Uses)  
(**polymers**, compn. for **packaging** photosensitive  
materials contg., resistant to migration of lubricants)

IT **Plastics, molded**  
RL: USES (Uses)  
(thermo-, **packaging** for photog. materials from,  
resistant to migration of lubricants, compns. for)

IT 490-23-3 **6683-19-8**, Irganox 1010 31570-04-4, Irganox 168  
RL: USES (Uses)  
(antioxidant, thermoplastic compn. for **packaging**  
photosensitive materials contg., resistant to migration of lubricants)

IT 128-37-0, 2,6-Di-tert-butyl-p-cresol, miscellaneous  
RL: MSC (Miscellaneous)  
(antioxidant, thermoplastic compn. for **packaging**  
photosensitive materials contg., resistant to migration of lubricants)

IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene 9003-53-6,  
Polystyrene 9010-79-1, Ethylene-propylene copolymer 25213-96-1,  
Ethylene-4-methyl-1-pentene copolymer  
RL: USES (Uses)  
(compn. for **packaging** photosensitive materials contg.,  
resistant to migration of lubricants)

IT 115-07-1D, Propylene, block copolymers 25087-34-7D, 1-Butene-ethylene  
copolymer, grafts with unsatd. carboxylic acids  
RL: USES (Uses)  
(compns. for **packaging** photosensitive materials contg.,  
resistant to migration of lubricants)

IT 1323-83-7, Glycerol distearate 25496-72-4, Glycerol monooleate  
26836-47-5, Sorbitol monostearate 31566-31-1, Glycerol monostearate  
86088-80-4, Diglycerol sesquioleate 97503-01-0  
RL: USES (Uses)  
(dripping agent, thermoplastic compn. for **packaging**  
photosensitive materials contg.)

IT 102962-56-1  
RL: USES (Uses)  
(dripping agents, thermoplastic compn. for **packaging**  
photosensitive materials contg.)

IT 93-82-3 112-84-5, Erucic amide 301-02-0 6283-37-0

## RL: USES (Uses)

(lubricant, thermoplastic compn. for **packaging** photosensitive materials contg., resistant to migration of lubricants)

IT 19046-64-1 87826-41-3

## RL: USES (Uses)

(nucleating agent, thermoplastic compn. for **packaging** photosensitive materials contg., resistant to migration of lubricants)

IT 6683-19-8, Irganox 1010

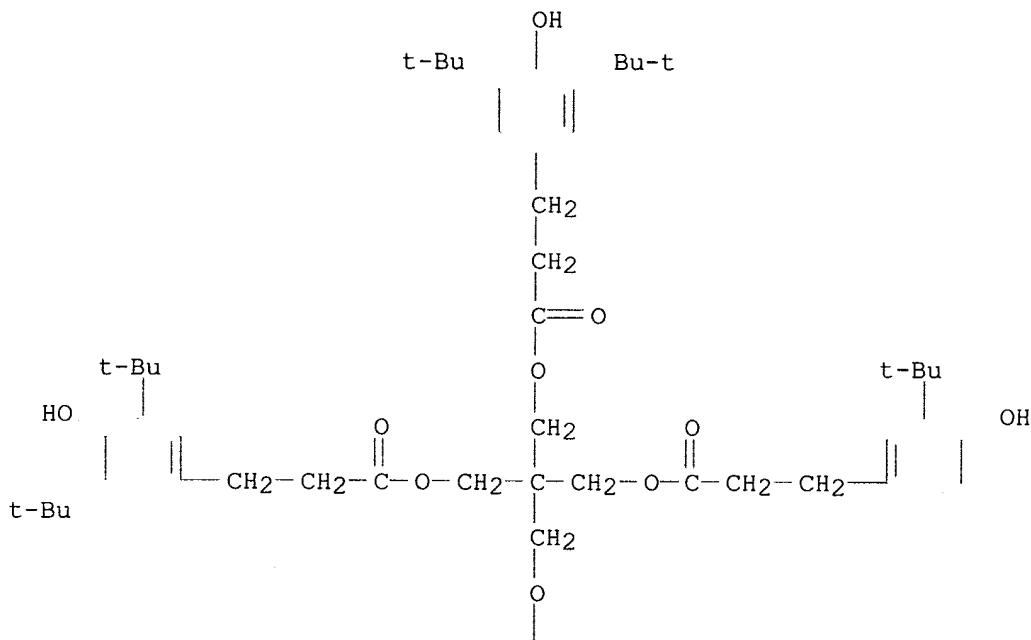
## RL: USES (Uses)

(antioxidant, thermoplastic compn. for **packaging** photosensitive materials contg., resistant to migration of lubricants)

RN 6683-19-8 HCAPLUS

CN Benzene propanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

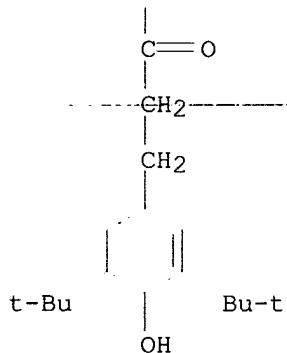
PAGE 1-A



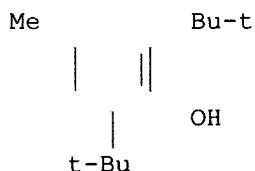
PAGE 1-B

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PAGE 2-A



IT 128-37-0, 2,6-Di-tert-butyl-p-cresol, miscellaneous  
 RL: MSC (Miscellaneous)  
 (antioxidant, thermoplastic compn. for **packaging**  
 photosensitive materials contg., resistant to migration of lubricants)  
 RN 128-37-0 HCAPLUS  
 CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (9CI) (CA INDEX NAME)



AN 1991:196457 HCAPLUS  
 DN 114:196457  
 TI Resin composition for photosensitive materials  
 IN Akao, Mutsuo  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G03F007-00  
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02178657	A2	19900711	JP 1988-332032	19881229
JP 2514081	B2	19960710		

AB The resin compn. contains, relative to a metal powder 100 wt. parts: .gtoreq.1 material 0.05-70 selected from aliph. acids, their compds., and surfactants; an antioxidant 0.01-20; and white silica 0.2-20 wt. parts. This resin compn. useful for photog. film packaging materials gives high phys. strength and characteristics suitable for injection molding and light shielding.

ST resin compn film packaging material

IT Packaging materials

(low-d. polyethylene, for photosensitive materials)

IT 7429-90-5, Aluminum, uses and miscellaneous 7440-02-0, Nickel, uses and miscellaneous

RL: USES (Uses)

(powder, resin compn. contg., as packaging film for photosensitive material)

IT 57-11-4, Stearic acid, uses and miscellaneous 301-02-0 6683-19-8  
7631-86-9, Silica, uses and miscellaneous

RL: USES (Uses)

(resin compn. contg., as packaging material for photosensitive material)

IT 6683-19-8

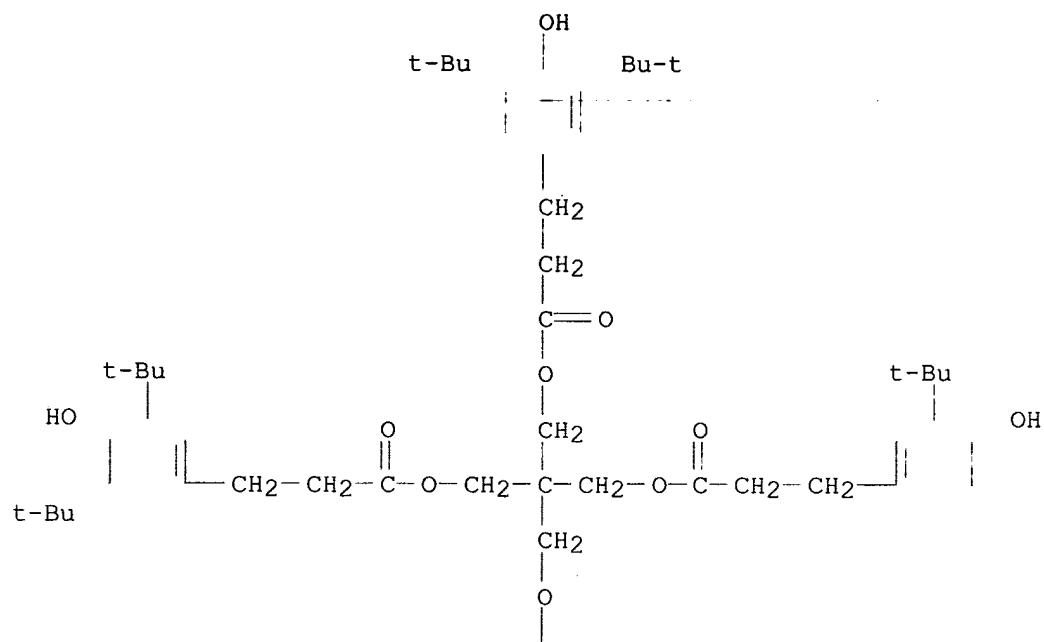
RL: USES (Uses)

(resin compn. contg., as packaging material for photosensitive material)

RN 6683-19-8 HCAPLUS

CN Benzene propanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

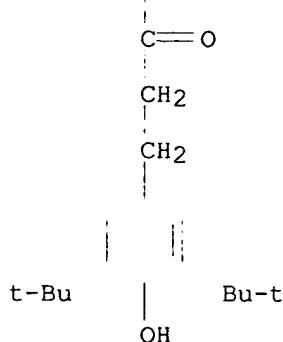
PAGE 1-A



PAGE 1-B

Bu-t

PAGE 2-A



L40 ANSWER 18 OF 22 HCPLUS COPYRIGHT 2002 ACS

AN 1989:516567 HCPLUS

DN 111:116567

TI **Packaging films for light-sensitive photographic materials**

IN Akao, Mutsuo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03C003-00

ICS B32B027-18; B32B027-32; C08J005-18

CC 38-3 (**Plastics** Fabrication and Uses)

Section cross-reference(s): 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01094341	A2	19890413	JP 1987-251529	19871007
	JP 07097205	B4	19951018		

AB Blocking-resistant title **films** with improved mech. strength contain layers comprising cryst. polypropylene 5-40, linear low-d. polyethylene .gt;0.30, light shielding materials 0.1-30, antioxidants 0.01-1.0, org. nucleation agents 0.01-3.00, and lubricants 0.01-6.00%. Thus, 3:97 ethylene-propylene copolymer (I) 20.0, ethylene-4-methyl-1-pentene copolymer 76.6, 2,6-di-tert-butyl-p-cresol 0.2, oleamide (II) 0.1, 1,3,2,4-bis(methylbenzylidene)sorbitol 0.1, and carbon black 3.0% were mixed and inflation-molded to give a **film** having flexural modulus 122.6 kg/mm<sup>2</sup>, vs. 28.6 for a **film** without I and II.

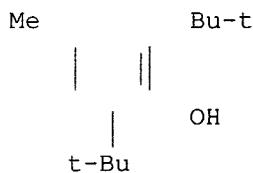
ST polyethylene polypropylene blend **packaging film**; **photog packaging** crystn polypropylene blend; ethylene propylene copolymer blend **film**; methylpentene ethylene copolymer blend **film**; carbon black polyethylene blend **film**

IT Lubricants  
Carbon black, uses and miscellaneous  
RL: USES (Uses)

(ethylene polymer blend films contg., for photog. material **packaging films**)

IT Polyamides, uses and miscellaneous  
RL: USES (Uses)  
(**films**, aluminum-metalized, for photog. material

packaging laminated films)  
 IT Light-sensitive materials  
     (packaging films for, laminates contg.  
         polyolefin-light shielding material blend films as)  
 IT Packaging materials  
     (laminated films, multilayer, polyolefin-light shielding  
         material blend-contg., for photog. materials)  
 IT 128-37-0, 2,6-Di-tert-butyl-p-cresol, uses and miscellaneous  
     RL: USES (Uses)  
         (antioxidants, ethylene polymer blend films contg.,  
             for photog. material packaging films)  
 IT 9010-79-1, Ethylene-propylene copolymer  
     RL: USES (Uses)  
         (cryst., photog. material packaging laminated  
             films contg.)  
 IT 87826-41-3  
     RL: USES (Uses)  
         (ethylene polymer blend films contg., for  
             photog. material packaging films)  
 IT 301-02-0, Oleamide  
     RL: USES (Uses)  
         (lubricants, ethylene polymer blend films contg.,  
             for photog. material packaging films)  
 IT 25087-34-7 25213-96-1, Ethylene-4-methylpentene-1 copolymer  
     RL: USES (Uses)  
         (photog. material packaging laminated films  
             contg.)  
 IT 7429-90-5, Aluminum, uses and miscellaneous  
     RL: USES (Uses)  
         (polyamide film deposited with, photog. material  
             packaging laminated films contg.)  
 IT 128-37-0, 2,6-Di-tert-butyl-p-cresol, uses and miscellaneous  
     RL: USES (Uses)  
         (antioxidants, ethylene polymer blend films contg.,  
             for photog. material packaging films)  
 RN 128-37-0 HCPLUS  
 CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (9CI) (CA INDEX NAME)



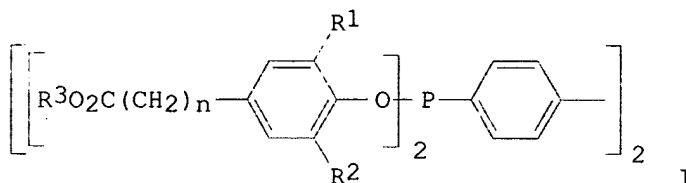
L40 ANSWER 19 OF 22 HCPLUS COPYRIGHT 2002 ACS  
 AN 1989:516305 HCPLUS  
 DN 111:116305  
 TI Propylene polymer compositions with good radiation resistance  
 IN Nakajima, Yoichi  
 PA Chisso Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 18 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C08L023-10  
 ICS C08K005-50

ICI C08K005-50, C08K005-17  
 CC 37-6 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 17, 63, 74

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01038457	A2	19890208	JP 1987-194090	19870803
	JP 07084545	B4	19950913		
OS	MARPAT 111:116305				

GI



AB The compns., useful in prep. radiochem. sterilizable disposable syringes, surgical gowns, food **packaging** films, etc., are prep'd. from propylene polymers 100, hindered amines 0.01-1.0, and phosphonites I (R1, R2 = H, C1-8 alkyl; R3 = hydrocarbyl; n = 0-6) 0.01-1.0 part.

Polypropylene 100, poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidyl)imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]] 0.1, tetrakis[2,6-di-tert-butyl-4-(octadecyloxycarbonylethyl)phenyl] 4,4'-biphenylenediphosphonite (II) 0.05, 2,5-dimethyl-2,5-bis(tert-butylperoxy)hexane 0.01, and Ca stearate 0.1 part were mixed and injection-**molded** to give a sheet having yellowness index -0.3 and 7.3%, tensile strength 345 and 332 kg/cm<sup>2</sup>, elongation >400 and 193%, and Izod impact strength 3.8 and 3.4 kg-cm/cm, as prep'd. and after exposure to a 5-megarad dose of .gamma.-rays, then storage for 10 days at 100.degree., resp., vs. -0.2 and 7.6, 344 and 320, >400 and 171, and 3.7 and 2.6, resp., for a sheet contg. tetrakis(2,4-di-tert-butylphenyl) 4,4'-biphenylenediphosphonite instead of II.

ST radiation resistance polypropylene sheet; hindered amine stabilizer polypropylene; phosphonite antioxidant polypropylene sheet; tetraaryl biphenylenediphosphonite antioxidant

IT Antioxidants  
 (biphenylenediphosphonites, radiation-resistant propylene polymers contg.)

IT Light stabilizers  
 (hindered amines, radiation-resistant propylene polymers contg.)

IT Gamma ray, chemical and physical effects  
 (resistance to, of propylene polymers contg. hindered amines and biphenylenediphosphonites)

IT Amines, uses and miscellaneous

RL: USES (Uses)  
 (hindered, light stabilizers, radiation-resistant propylene polymers contg.)

IT 122077-26-3 122077-27-4 122077-28-5

RL: USES (Uses)

(antioxidants, radiation-resistant propylene polymers contg.)

IT 65447-77-0 71878-19-8 88003-10-5

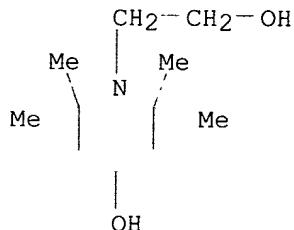
90751-07-8 98388-46-6

RL: USES (Uses)

(light stabilizers, radiation-resistant propylene polymers contg.)  
 IT 9003-07-0, Polypropylene 9010-79-1 25895-47-0, 1-Butene-ethylene-propylene copolymer 29160-13-2, 1-Butene-propylene copolymer 106565-43-9, Ethylene-propylene block copolymer 112760-38-0, 1-Butene-hexene-propylene copolymer  
 RL: PEP (Physical, engineering or chemical process); PROC (Process)  
 (moldings, contg. hindered amines and biphenylylenediphosphonites, radiation-resistant)  
 IT 65447-77-0 71878-19-8 88003-10-5  
 90751-07-8 98388-46-6  
 RL: USES (Uses)  
 (light stabilizers, radiation-resistant propylene polymers contg.)  
 RN 65447-77-0 HCPLUS  
 CN Butanedioic acid, dimethyl ester, polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol (9CI) (CA INDEX NAME)

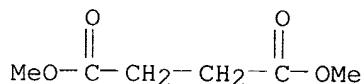
CM 1

CRN 52722-86-8  
 CMF C11 H23 N O2

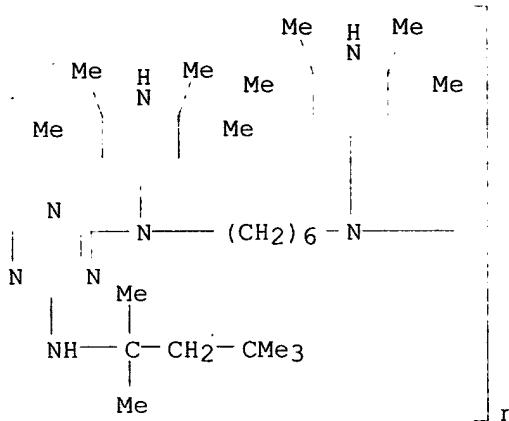


CM 2

CRN 106-65-0  
 CMF C6 H10 O4

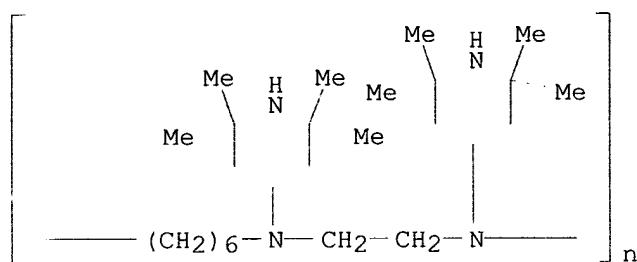


RN 71878-19-8 HCPLUS  
 CN Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)



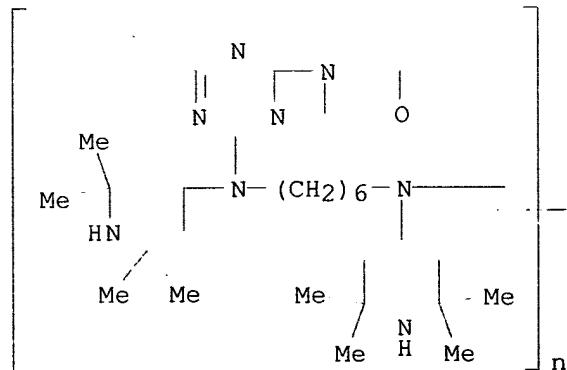
RN 88003-10-5 HCAPLUS

CN Poly[[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,2-ethanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyyl] (9CI) (CA INDEX NAME)



RN 90751-07-8 HCAPLUS

CN Poly[[6-(4-morpholinyl)-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)



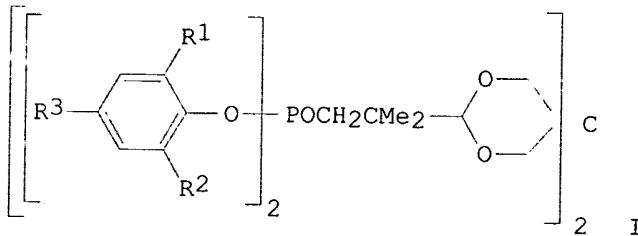
RN 98388-46-6 HCAPLUS

L40 ANSWER 20 OF 22 HCAPLUS COPYRIGHT 2002 ACS  
AN 1989:498444 HCAPLUS

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

DN 111:98444  
 TI Propylene polymer compositions with good radiation resistance  
 IN Nakajima, Yoichi  
 PA Chisso Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C08L023-10  
 ICS C08K005-52  
 ICI C08K005-52, C08K005-17  
 CC 37-6 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 17, 63, 74  
 FAN.CNT 1  

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01038456	A2	19890208	JP 1987-194089	19870803
	JP 07084544	B4	19950913		
OS	MARPAT 111:98444				
GI					



AB The compns., useful in prep. radiochem. sterilizable disposable syringes, surgical gowns, food packaging films, etc., are prep'd. from propylene polymers 100, hindered amines 0.01-1.0, and phosphites I [R<sub>1</sub>, R<sub>2</sub> = H, C<sub>1</sub>-8 alkyl; R<sub>3</sub> = H, alkyl, (CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>R<sub>4</sub>; R<sub>4</sub> = hydrocarbyl; n = 0-6] 0.01-1.0 part. Polypropylene 100, poly[[(6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl)[(2,2,6,6-tetramethyl-4-piperidyl)imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]] 0.1, tetrakis(2,4-di-tert-butylphenyl) 3,9-bis(1,1-dimethyl-2-hydroxyethyl)-2,4,8,10-tetraoxaspiro[4.5]undecane diphosphite (II) 0.05, 2,5-dimethyl-2,5-bis(tert-butyldperoxy)hexane 0.01, and Ca stearate 0.1 part were mixed and injection-molded to give a sheet having yellowness index -0.4 and 7.1%, tensile strength 345 and 334 kg/cm<sup>2</sup>, elongation >400 and 195%, and Izod impact strength 3.9 and 3.5 kg-cm/cm, as prep'd. and after exposure to a 5-megarad .gamma.-ray dose, then storage for 10 days at 100.degree., resp., vs. -0.3 and 7.5, 345 and 321, >400 and 173, and 3.8 and 2.6, resp., for a sheet contg. bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite instead of II.  
 ST radiation resistance polypropylene sheet; hindered amine stabilizer propylene polymer; phosphite antioxidant polypropylene sheet  
 IT Light stabilizers  
     (hindered amines, radiation-resistant propylene polymers contg.)  
 IT Gamma ray, chemical and physical effects  
     (resistance to, of propylene polymers contg. hindered amines and bisphosphites)  
 IT Antioxidants

(tetraaryl dimethyltetraoxaspirooundecanediethanol diphosphites,  
radiation-resistant propylene polymers contg.)

IT Amines, uses and miscellaneous  
RL: USES (Uses)  
(hindered, light stabilizers, radiation-resistant propylene polymers  
contg.)

IT 89493-89-0 122077-29-6 122098-98-0 122098-99-1  
RL: USES (Uses)  
(antioxidants, radiation-resistant propylene polymers contg.)

IT 65447-77-0 71878-19-8 88003-10-5  
90751-07-8 98388-46-6  
RL: USES (Uses)  
(light stabilizers, radiation-resistant propylene polymers contg.)

IT 9003-07-0, Polypropylene 9010-79-1, Ethylene-propylene copolymer  
25895-47-0 29160-13-2, 1-Butene-propylene copolymer 106565-43-9,  
Ethylene-propylene block copolymer 112760-38-0, 1-Butene-hexene-  
propylene copolymer  
RL: PEP (Physical, engineering or chemical process); PROC (Process)  
(moldings, contg. hindered amines and bisphosphites,  
radiation-resistant)

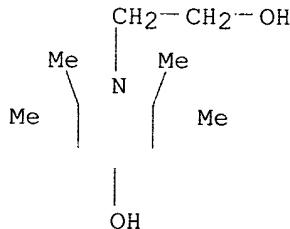
IT 65447-77-0 71878-19-8 88003-10-5  
90751-07-8 98388-46-6  
RL: USES (Uses)  
(light stabilizers, radiation-resistant propylene polymers contg.)

RN 65447-77-0 HCPLUS

CN Butanedioic acid, dimethyl ester, polymer with 4-hydroxy-2,2,6,6-  
tetramethyl-1-piperidinethanol (9CI) (CA INDEX NAME)

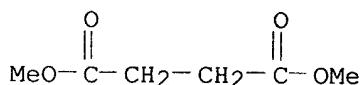
CM 1

CRN 52722-86-8  
CMF C11 H23 N O2

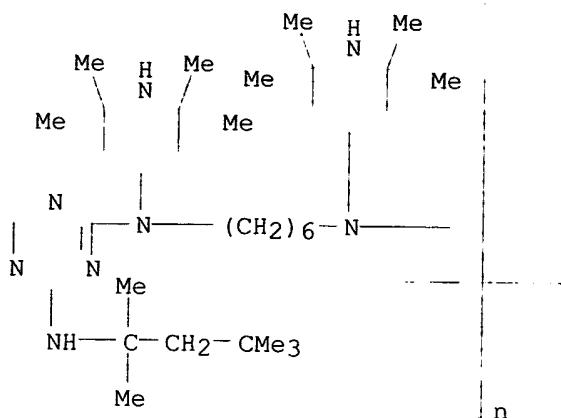


CM 2

CRN 106-65-0  
CMF C6 H10 O4

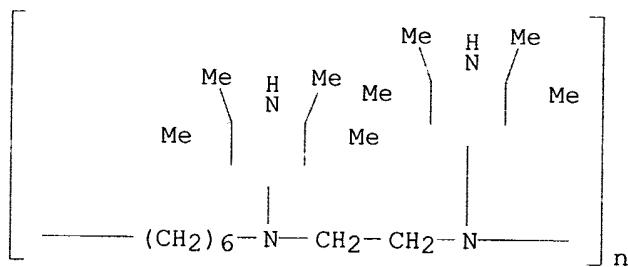


RN 71878-19-8 HCPLUS  
 CN Poly[[6-[{(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-  
diyl}[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyil[(2,2,6,6-  
tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)



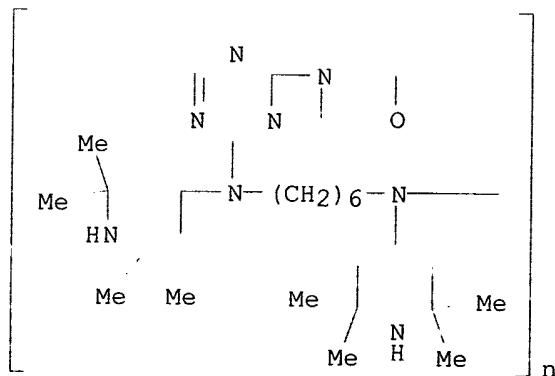
RN 88003-10-5 HCPLUS

CN Poly[[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,2-ethanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyyl] (9CI) (CA INDEX NAME)



RN 90751-07-8 HCPLUS

CN Poly[[(6-(4-morpholinyl)-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)



RN 98388-46-6 HCPLUS

L40 ANSWER 21 OF 22 HCPLUS COPYRIGHT 2002 ACS

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

AN 1989:458983 HCAPLUS  
 DN 111:58983  
 TI Propylene polymer compositions with good radiation resistance  
 IN Nakajima, Yoichi; Sato, Toshiaki  
 PA Chisso Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08L023-10

ICS C08K005-34

ICI C08K005-34, C08K005-05, C08K005-49

CC 37-6 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 17, 63, 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01038455	A2	19890208	JP 1987-194088	19870803
	JP 08003007	B4	19960117		
AB	Title compns., useful in prep. radiation-sterilizable disposable syringes, surgical dressings, food packages, etc., are prep. from propylene polymers 100, hindered amines 0.01-1.0, P-contg. antioxidants 0.01-1.0, and benzhydrols 0.01-1.0 part. Polypropylene 100, poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidyl)imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]] 0.1, benzhydrol 0.1, bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite (I) 0.05, 2,5-dimethyl-2,5-bis(tert-butylperoxy)hexane 0.01, and Ca stearate 0.1 part were mixed and injection-molded to give a sheet having yellowness index -0.2 and 8.8%, tensile strength 344 and 325 kg/cm <sup>2</sup> , elongation >400 and 173%, and Izod impact strength 3.8 and 2.9 kg-cm/cm, as prep. and after exposure to a 5-megarad dose of 60Co .gamma.-rays, then storage for 10 days at 100.degree., resp., vs. 0.1 and 9.7, 346 and 295, >400 and 123, and 3.7 and 2.1, resp., for a sheet without I.				
ST	radiation resistance propylene polymer sheet; hindered amine contg polypropylene sheet; phosphite antioxidant contg polypropylene sheet; benzhydrol contg polypropylene sheet				
IT	Antioxidants (phosphites, radiation-resistant propylene polymers contg.) Gamma ray, chemical and physical effects (resistance to, of propylene polymers contg. hindered amines and phosphites and benzhydrols)				
IT	Amines, uses and miscellaneous RL: USES (Uses) (hindered, light stabilizers, radiation-resistant propylene polymers contg.)				
IT	26741-53-7, Bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite 31570-04-4, Tris(2,4-di-tert-butylphenyl) phosphite 38613-77-3, Tetrakis(2,4-di-tert-butylphenyl) 4,4'-biphenylenediphosphonite 80693-00-1 RL: USES (Uses) (antioxidants, radiation-resistant propylene polymers contg..)				
IT	65447-77-0 71878-19-8 88003-10-5 90751-07-8 RL: USES (Uses) (light stabilizers, radiation-resistant propylene polymers contg.) 9003-07-0, Polypropylene 9010-79-1 25895-47-0, 1-Butene-ethylene-propylene copolymer 29160-13-2, 1-Butene-propylene copolymer 106565-43-9 112760-38-0, 1-Butene-hexene-propylene copolymer RL: PEP (Physical, engineering or chemical process); PROC (Process)				

(**moldings**, contg. hindered amines and phosphites and benzhydrols, radiation-resistant)

IT 91-01-0, Benzhydrol 885-77-8, 4,4'-Dimethylbenzhydrol 16607-60-6  
32449-03-9 98531-28-3

RL: USES (Uses)

(transparent and radiation-resistant propylene polymers contg.)

IT 65447-77-0 71878-19-8 88003-10-5  
90751-07-8

RL: USES (Uses)

(light stabilizers, radiation-resistant propylene polymers contg.)

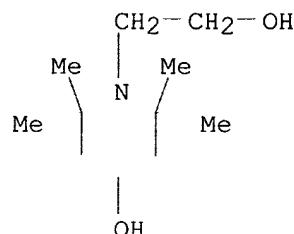
RN 65447-77-0 HCAPLUS

CN Butanedioic acid, dimethyl ester, polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol (9CI) (CA INDEX NAME)

CM 1

CRN 52722-86-8

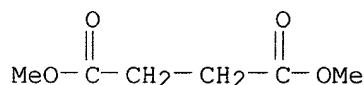
CMF C11 H23 N O2



CM 2

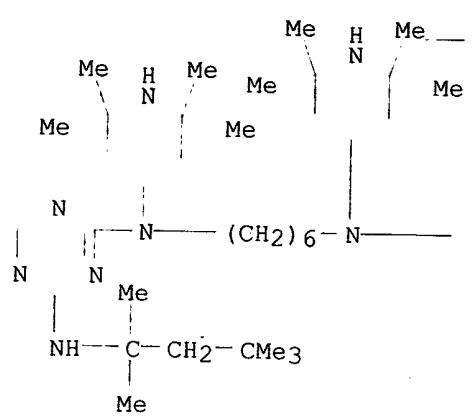
CRN 106-65-0

CMF C6 H10 O4



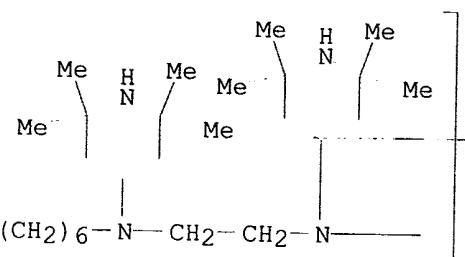
RN 71878-19-8 HCAPLUS

CN Poly[{6-[{(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl}[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]} (9CI) (CA INDEX NAME)



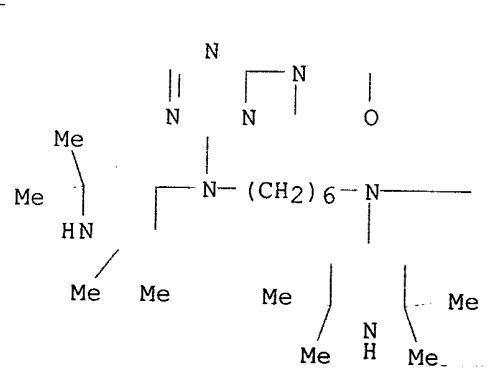
RN 88003-10-5 HCPLUS

CN Poly[[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,2-ethanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyyl] (9CI) (CA INDEX NAME)



RN 90751-07-8 HCPLUS

CN Poly[[(6-(4-morpholinyl)-1,3,5-triazine-2,4-diyl)[(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)

L40 ANSWER 22 OF 22 HCPLUS COPYRIGHT 2002 ACS  
AN 1989:458982 HCPLUS  
DN 111:58982

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

TI Propylene polymer compositions with good radiation resistance  
 IN Nakajima, Yoichi; Sato, Toshiaki  
 PA Chisso Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese  
 IC ICM C08L023-10  
 ICS C08K005-34  
 ICI C08K005-34, C08K005-15, C08K005-49  
 CC 37-6 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 17, 63, 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01038454	A2	19890208	JP 1987-194087	19870803
AB	Title compns., useful in prep. radiation-sterilizable disposable syringes, surgical dressings, food packages, etc., are prepd. from propylene polymers 100, hindered amines contg. triazine rings 0.01-1.0, P-contg. antioxidants 0.01-1.0, and dibenzylidenesorbitols 0.01-1.0 part. Polypropylene 100, poly[[(6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl)][(2,2,6,6-tetramethyl-4-piperidyl)imino]hexamethylene][(2,2,6,6-tetramethyl-4-piperidyl)imino]] (I) 0.1, bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite 0.05, 1,3:2,4-dibenzylidenesorbitol 0.25, 2,5-dimethyl-2,5-di-tert-butylperoxy)hexane 0.01, and Ca stearate 0.1 part were mixed and injection-molded to give a sheet having yellowness index -0.1 and 7.4%, tensile strength 375 and 351 kg/cm <sup>2</sup> , elongation >400 and 166%, and Izod impact strength 3.7 and 2.8 kg-cm/cm, as prep'd. and after exposure to 5 megarads of .gamma.-rays and storage for 10 days at 100.degree., resp., vs. 0.2 and 7.5, 375 and 291, >400 and 4, and 3.5 and 0.8, resp., for a sheet contg. bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate instead of I.				
ST	radiation resistance polypropylene blend sheet; hindered amine contg polypropylene sheet; phosphite antioxidant contg polypropylene sheet; benzylidenesorbitol contg polypropylene sheet				
IT	Antioxidants (phosphites, radiation-resistant propylene polymers contg.)				
IT	Gamma ray, chemical and physical effects (resistance to, of propylene polymers contg. hindered amines and phosphites and dibenzylidenesorbitols)				
IT	Amines, uses and miscellaneous				
	RL: USES (Uses) (hindered, light stabilizers, radiation-resistant propylene polymers contg.)				
IT	26741-53-7, Bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite 31570-04-4, Tris(2,4-di-tert-butylphenyl) phosphite 38613-77-3, Tetrakis(2,4-di-tert-butylphenyl) 4,4'-biphenylylenediphosphonite 80693-00-1				
	RL: USES (Uses) (antioxidant, radiation-resistant propylene polymers contg.)				
IT	71878-19-8 90751-07-8 121859-41-4 121859-42-5				
	RL: USES (Uses) (light stabilizers, radiation-resistant propylene polymers contg.)				
IT	9003-07-0, Polypropylene 9010-79-1 25895-47-0, 1-Butene-ethylene-propylene copolymer 29160-13-2, 1-Butene-propylene copolymer 67203-28-5				
	RL: PEP (Physical, engineering or chemical process); PROC (Process) (moldings, contg. hindered amines and phosphites and				

dibenzylidenesorbitols, radiation-resistant)

IT 19046-64-1 80124-42-1 81541-12-0 81541-15-3 88449-66-5,  
1,3-p-Chlorobenzylidene-2,4-p-methylbenzylidenesorbitol  
RL: USES (Uses)

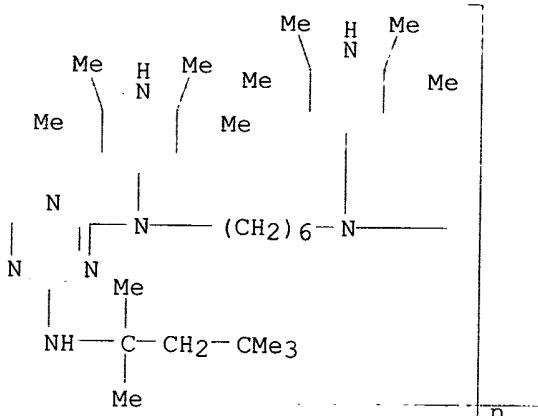
(transparent and radiation-resistant propylene polymers contg.)

IT 71878-19-8 90751-07-8 121859-41-4  
121859-42-5  
RL: USES (Uses)

(light stabilizers, radiation-resistant propylene polymers contg.)

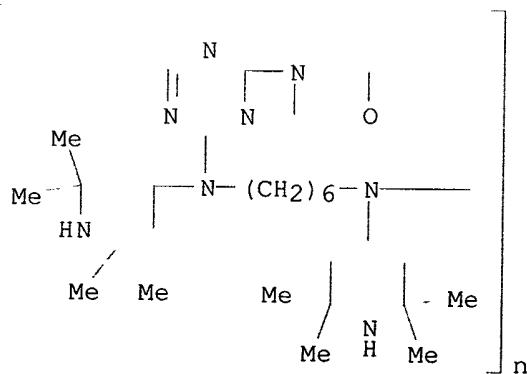
RN 71878-19-8 HCAPLUS

CN Poly[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)



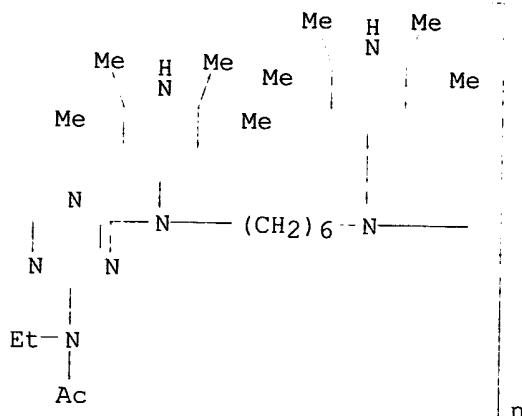
RN 90751-07-8 HCAPLUS

CN Poly[6-(4-morpholinyl)-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)



RN 121859-41-4 HCAPLUS

CN Poly[6-(acetylethylamino)-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)



RN 121859-42-5 HCAPLUS

CN Poly[[6-[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyil[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)

